# e Mining Journal C RAILWAY GAZETTE,

forming a complete record of the proceedings of all public companies.

No. 582 .-- Vol. XVI.

LONDON: SATURDAY, OCTOBER 17, 1846.

PRICE 6D.

TO MINERS & OTHERS.—TO BE SOLD, BY AUCTION, by Mr. WHITE, upon the premises, at BOTSTONE MINE, BUTTERTON, near Leek, in the county of STAFFORD, on Wednasday, October 31, 1846, without reserve, the whole of the following very valuable

owing very valuable
MINING MACHINERY, &c.,
part, a very powerful WATER-WHEEL, 18-feet diameter by 9-feet

which consist of, in part, a very powerful WATER-WHEEL, 18-feet diameter by 9-feet breast, cast-fron axie, centres and cranks, complete.

IRON PUMP, 20 yards long, 12 inches calibre, with working barrel, and all the appendages complete to one ditto ditto, 40 yards, 10 inches calibre, with all ditto complete; one ditto ditto, 20 yards, 5 inches calibre, with all ditto complete; one ditto ditto, 22 yards, 5 inches calibre, with all ditto complete; one ditto ditto, 22 yards, 5 inches calibre, with all ditto complete cone ditto ditto, 22 yards, 5 inches calibre, with all ditto complete. Large one ditto ditto, 28 yards, 5 inches calibre, with all ditto complete conditions of the calibre, with call years and pulleys, drawing machine, with calk oak spindle, 50 and with iron hoops, spear arms and pulleys, drawing machine, with cranks and pulleys, metal grinder, with double pair of large rollers, and 5-feet driving when (nearly new), 10 large cressing tubs, with the machinery attached, large weigh beam, cales and weights, 400 yards of 41-inch square forge from 190 yards of ditto round ditto, a large quantity of sundry forge from and castings, a complete set of castings for leebob, iron waggons and barrels, 80 yards of 5-inch new chain, four large wood sheds, suitable for covering cart or hay sheds, whoel and hand barques, miners' shovels, haumers, riddles, and other working tools, blacksmiths' bellows, and, and other timber, about 500 diles, doors, windows, and other building materials, long and short ladders, grindstone, with great variety of other paterials, suitable for mining and other purposes.

consequence of the great number of lots to be disposed of, the sale will begin at Eleven ock in the forenoon precisely.—George Inn, Alstonfield, Oct. 12, 1846.

ALLENBEAGLE MINE MATERIALS.—PEREMPTORY AND LAST DAY'S SALE.—Mr. TIPPET begs to announce, that he SELL, BY PUBLIC AUCTION, on Wednesday, the 31st October Inst., at Ten Octobe forenoon, at HALLENBEAGLE MINE, sear CHACEWATER, the following very VALUABLE MINING MATERIALS—VIZ.:

STEAM-ENGINE, 66-inch cylinder ("Acet 9-inch stroke in-shart), with cast-iron sam, three bollows, about 42 fons, and the first piece of rod, cylinder and case, brass medensing work (nearly new).

beam, three bodiers, about 42 fons, and the first piece of rod, cylinder and case, brass condensing work (nearly new).

One WHIM-ENGINE, 18-inch cylinder (4-feet stroke in shaft), with bolier, about 7 to 10 to

MINING MATERIALS FOR SALE.—TO BE SOLD, BY AUCTION, by Mr. J. HUXHAM, on Tuesday, October 27, by Eleven o'clock in the Tremoon, at MEXICO MINE, in the parish of CALSTOCK, near Callington, the following VALUABLE MINING OM ATERIALS, Consisting of ONE very excellent WATER-WHEEL, 30-feet in diameter, and 30 inches in breast, within.—This wheel was built new a very short time since, and is of the best materials and workmanship.

In breast, within.—This wheel was built new a very short time since, and is of the beet.

On a balance and one main bob, with frame; two 10-fathom lifts, complete, with 8-inch working barrel and 9-inch pumps; one 6-inch working barrel, windbore, and deorpiece; two fathoms of wood pumps, one waster-wheel, 7 feet in diameter, 2 feet breast, with bob and sweep-rods; about 200 feet of excellent launders, 16 inches wide; a great many fathoms of sinc air-pipes; one excellent whim, 12 feet in diameter; about 75 fathoms of 6-inch whim-rope, pulley and frame; a quantity of plank; one excellent, 5 feet by 4 feet, with beams; quantity of timber, sinc fathoms of main rod, 6 inches square; two from and two wood winze cables, two from whits cables, five wheel and one hand barrow, smitch believes, anyll, vice, and smiths tools of every description; a quantity of new and old iron, miner; tools, three wire sevens, 35 fathoms of ladders, one from winze, two tackles and ropes, with various other articles.

All the above materials are in excellent condition, and will positive y be sold to the lighest bidder.

For viswing the same, amplication to be made to Cant. W. Y. Acad.

For viswing the same, application to be made to Capt. W. Knott, on the mine.

Figure 2 to 18 to

FOR SALE—EXTENSIVE AND VALUABLE IRON-WORKS (in close vicinity of the harbour of Aberdeen).—There will be exposed FOR SALE, BY FUBLIC ROUP, within the Lemon Tree Tavern, A BERDEEN, on Wednesday, the 4th day of November next, at Two cjelock afternoon, those extensive and

valuable premises, at Footness, Aberdem (bounded on the west by the harboar), known as THE DEE IRON-WORKS, and long EMPLOYED in the ENGINEERING and MILLWRIGHT BUSINESS, and in IRON FOUNDING, BOILER-MAKING, IBON SHIPBUILDING, BLACKSMITH WORK, BRASS FOUNDING, &c.

These works are very compact, and much more advantageously situated than many other works of the same description, for iron shipbuilding and engineering business—having a WATER FRONTAGE to the harbour, and in close connection with the other parts of the establishment—and the whole lying so contiguous, that all the branches of the business can be carried on under the same superintendence.

In the BUILDING-YARD several iron vossels may be proceeding at one and the same time, of from 200 to 200 tons burthen; and the tools and machinery in this department are basewed to be equal to any in the kingdom; there are other accommodations for carrying sea this branch of unsuess in its fullest perfection.

In the ENGINEERING DEFARTMENT, the tools and machinery are of the most improved description, and espable of constructing engines or machinery equal in magnitude to any known at the present day; and are sufficient to employ, constantly, from 100 to 150 meas—all connections with this department, the building and fitting of locomotives may be carried on to the greatest extent.

150 mea. In connection with this department, the building and fitting of loco to carried on to the greatest extent.

The IRON FOUNDING DEPARTMENT is fitted up in the most complete it was to be a first of furning out both heavy and light cautings, and of fully employing in the BOILER MAKING DEPARTMENT, which is separate from the tron remainest, there is a complete set of tools and machinery, of the best descript of complete. We have

In the BOILER MAKING Like to the second machinery, or the comisse, there is a complete set of tools and machinery, or the blast, with cranes at the BLACKSMITH Shop there are 12 forges, all blown by fun-blast, with cranes at sched to the principal ones, and each forge having a complete assortment of tools, for agineering, millwright, and shipbuilding purposes.

The MILLWRIGHT and PATTERN MAKERS DEPARTMENT has a full assortment of all kinds at joiner and millwright's tools and fixtures, for the employment of 25 men, with a large stock of the most modern and useful patterns, which will be given over with

ING and FINISHING BUSINESS, and a second process of the amount of £60,000 or £70,000 e-year; and having hean for several ypars, and still being, in full operation, the purchaser will have the advantage of commencing business immediately. The greatest facilities of communication are afforded, by regular trading steam and other vessels, from Abordeen to London, Hull, Newcastle, and Leith, in the south; and Inverness, Wick, Orkney, and Shetland, in the north.

The extensive improvements on the harbour, now going on, and the projected railway schemes in connection with Abordeen, afford every prospect of full employment for a work of this description for a long period to come.

If the purchaser were desirous of removing the plant elsewhere, the buildings are so constructed as to be convertable into other manufacturing purposes, at little expense, as there are three fixed steam-engines on the premises.

For further particulars apply to John Hunter, Esq., W.S., 13, Hill-street, Edinburgh; W. Robinson, Esq., advocate, 88, Castle-street, Aberdeen, or to Mr. Vernon, at the works, who will show the prefitness, and on application, forward a plan of the buildings, and inventory of the machinery, tools, &c.—Aberdeen, September 8, 1846.

\*.\* Copies of the Plan and Inventory may be had, on application, at the office of the Mining Jownal, 26, Fleet-street, London.

TARROW COLLIERY, in the COUNTY OF DURHAM. ARROW COLLIERY, in the COUNTY OF DURHAM.—
TO BE SOLD, BY AUCTION, under the directions of the executors of the late thomas Brown, Esq., of London, on Wednesday, the 11th day of November next, at noon, in the Turk's Head. Newcastle-upon-Tyne, all the unexpired term of a LEASE, for all years, from May, 1839, of and in the colliery called JARROW COLLIERY, together with all the valuable LIVE and DEAD STOCK thereum belonging.—Arrangements might be made whereby a considerable portion of the purchase-money would be allowed to remain on the security of the premises.

For particulars apply to Messrs. Fry, Lexiev, and Fry, 80, Cheapside, London; R.P. Phillisson, Esq., Newcastle-upon-Tyne, solicitors to the said executors; or Mr. T. W. Jobling, Jarrow.—Jarrow, Sept. 28, 1846.

LENKENS LEAD AND COPPER MINES, KIRKCUDBRIGHTSHIRE.—In consequence of MINERALS, of considerable value, having been found on the ESTATES in which the GLENKENS MINES are situate, an Act of Farliament has been obtained, to enable the trustees to GRANT MINERAL LEASES. These mines are situated in the centre of a mineral country, and in the vicinity of the flourishing lead works of Carsphairn, Lead Hills, the Newton Stewart, and Heston Island Copper Mines, the Kirkcudbrightshire Mining Company's works, and other in that part of Sectland.

in that part of Scotland.

The proprietor has been, for the last two years, exploring and opening the ground and five promising lodes have been proved, which are now being opened and extended by Cornlah minors. There being every prospect of a most satisfactory result at an early period, as appears from the reports of the several mine agents who have inspected the lands, as also of the captain now superintesting the works, a company is being formed, to give the mines a fair trial, on the principle of the Coat-hook System, by dividing the interest into 1000 shares, of which some few still remain unappropriated.

Plans of the sett, comprising about 1200 acres, and the several reports, may be seen and every information obtained, at the offices of Messrs, Bullock, and Luscombe, No. 31 Lincola's Inn-fields, to whom applications for shares must be made.

EAD MINES, INVERNESS-SHIRE. -The attention of EAD MINES, INVERNESS-SHIRE.—The attention of CAPITALISTS and of MINING ADVENTUREIS is invited to an extensive DISTRICT of rich and promising MINERAL GROUND, situate in the immediate vicinity of excellent roads, and within 10 miles from a shipping port, in the country of INVERNESS, which would be LET, ON LEASE, upon advantageous terms. Under the superintendence of an experienced mineral agent, a shall has been sunk to the depth of 20 dathoms; at the mouth of which, an engine and other works have been proceed, and loved have been driven, in different directions, by the propriser and his agents, with the view of exploring the lodes and strata, which are of a mean promising character. A minute survey of the lands and workings has been recently made by an ominent mineral surveyor, whose report, with a sketch and sections of the workings, together with specimens of the ores raised, may be seen, en application, at the office of Edward Slaughter, Esq., 5, Duchess, street, Porthad-place, London; and all further local and other particulars may be taken and the control of the cont

TO COALOWNERS—those possessing COLLIERIES, or FIELDS, of CANNEL, PAIROT, or other similar highly bituminous qualities of COAL.—WANTED, in LONDON, a SUPPLY of this DESCRIPTION of COAL, for the purpose of manufacturing gas; the coal in question abounds in Lancashire, Yorkshire, Derbyshire, and some other counties in England—in Scotland, and in parts of Sauth Wales, and is found to be superior for gas purposes, particularly in the illuminating power of its gas. Any proprietors possessing such coal, and can deliver it in London, either by sea, canal, or rallway, will be pleased to consimunisate with Joseph Hedley, Esq., General Consulting Gas Engineer, 29, Bucklersbary, London, staing quantity that can be deflivered anamally, present price per ton, delivered at a wharf or rallway station in Longo, quality, so far as known, and other particulars.—London, Oct. 13, 1846.

MINING IN CARDIGANSHIRE.—TO CAPITALISTS

AND MINE ADVENTURERS.—TO BE LET, on most advantageous terms, in
a rich MINING DISTRICT, near ABERYSTWITH, about FOUR THOUSAND ACRES
of LAND, containing numerous lotes, rich in METALLIC ORES, and close adjoining the
far-famed and highly productive Lisburne Silver-Lead Mines. Many of these lodes have
been recently discovered, and are of a highly promising character. There is first-rate and
ample water-power on the estate to work mines to any reasonable dopth; and the proprictor would treat, on liberal terms, with any gestlemen wishing to embark in a highly
promising mining speculation, or any receditable mining company.

Every further particular may be obtained on application (by letter) to Mr. J. M. Davies,
Antaron Cottage, near Aberystwith; or for the office of the Alming Journal, No. 26, Fleetstreet, London.

ETROPOLITAN IRON AND STEEL COMPANY

ETROPOLITAN INCOMAND STEEL COMPANY
(Provisionally Registered, pursuant to Act of Parliament, 7 and 8 Vic., c. 110.)

Capital £200,000, in 10,000 shares of £20 each.—Deposit £3 per share.

A company has been formed for the MANUFACTURE OF IRON AND STEEL (from asst, scrap, and all descriptions of old refusi iron), which shall be of a superior quality to any hitherto produced in the mining districts.—The objects of the company are full explained in the prospectus.

In allotting the shares a preference will be given to parties in the iron trade.

Applications for shares and prospectises to be made to Mr. Charles Chilton, No. 30 Moorgate-street; or at the Steam Mills, 135, Old-street.

Moorgale-street; or at the Steam Mills, 135, Old-street.

V. A. L. E. N. C. I. A. S. L. A. T. E. C. O. M. P. A. N. Y.

The VALENCIA SLATE QUARRIES, situate in the Island of Valencia, on the southwest coast of Ireland, have been worked on a limited scale for some years, and the superfor quality of the slate, and its poculiar adaptation for sawing into slabs, have been fully
catablished.

The demand for Valencia slabs has become very extensive. Having great strongth,
perfectly true surfaces, and not being affected by acids or grease, nor absorbing moisture,
they have been found peculiarly adapted for factory floors, and for wardonouses, granaries,
maitings, and stores; also for prisons, hospitals, and railway stations, and for the floors,
ceilings, and roos of public buildings. The station at Birmingham is laid with Valencia
slab, and a considerable quantity is used at the Model Prison at Poutowille, and at the
mew Houses of Parliament.

There is also a large and increasing demand for these slabs in the colonies, for contecdrying floors, and for sugar-houses.

To attain the enlarged scale of production required to meet the great demand, it is proposed to increase the capital embarked in the undersking by the admission of new partners; and to carry it on under the powers, and with the advantages, of the Act for the
Registration of Joint-Stock Companies.

For prospectuses and detailed statements, showing the immediate and large returns to

NOTICE TO THE MANAGERS or MINING COMPANIES, SMEATING WORKS, &c.

Mr. MITCHELL (late Michell and Field) begs to announce, that ASSAYS and ANALYSES of all descriptions of ORES, MINERALS, and FURNACE PRODUCTS, are conducted at his LABORATORY, 23, HAWLEY-ROAD, KENTISH TOWN, to which direction all communications are to be addressed.

N.B.—Instruction in all branches of assaying and infacral unalysis as usual

THE PATENT SAFETY FUSE, FOR BLASTING ROCKS IN MINES, QUARRIES, AND FOR SUBMARINE OPERATIONS.—This article affords the \$APEST, CHEAPEST, and most EXPEDITIOUS MODE of effecting this very heardous operation. From many testimentes to its asculiness with which the manufacturers have been favoured from every part of the king dom, they select the following letter, recently recolved from John Taylor, Eq. , F.E.S., &c.:—1 am very glad to hear that my recommendations have been of any service to you; they have been given from a theough conviction of the great usefulness of the Saksy Fuse; and I am quite willing that you should employ my name as evidence of this Manufactured and sold by the Patentees, BICKFOED, SMITH, and DAYEY, Options, Cornwall.

TO ENGINEERS, RAILWAY CONTRACTORS, MINING AGENTS, IRONMASTERS, AND OTHERS REQUIRING FINE GREASE for MACHINERY and AXLES of every description.—JOSEPH PERCIVAL'S IMPROVED ANTI-FRICTION GREASE is—after trials on machinery and axis of every kind where constant friction is kept up—admitted to be the most useful, economical, and best preparation of the kind ever offered to the public.

References to sciontific and practical men can be given, and testimonials show only

WILLIAM FOX AND SON, No. 53, CASTLE-STREET,
LIVERPOOL, have always on SALE PIG-IRON, BAILWAY BARS, CHAIRS
and IRON of every description.—TIN PLATES, WIRE, &c.

WILSON & FRASER, 2, WELLINGTON BUILDINGS, LIVERPOOL, and 18, EXCHANGE-PLACE, GLASGOW, have always ON SALE PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

MESSES. J. PAINTER AND CO., SHAREBROKERS, MINING AND GENERAL AGENTS.
25, CASTLE-STREET, LIVERPOOL,
AFFORD EVERY INFORMATION as to the STATE of the MARKETS, PRICES, &c.
upon application.

ESSRS. R. CLARK & CO. beg to acquaint their friends and the public in general, that they have taken OFFICES as below, where they intend to carry on BUSINESS as STOCK, SHABE, and MINING AGENTS; relying with confidence upon the method adopted by them for conducting all business entrusted to their agency, Messra, B. C. & Co. solicit a continuance of that support it will be, by strictust attention to all orders, their endeavour to deserve.

M.B.—Monoy advanced upon scrip and other securities.

M.R. RYE has BUSINESS to do in Trelawney, Wheal Gill, Mary Ann, Condurrow, Craddock Moor, Kirkendbright, West Caradon, Gonamena, Old Harrowbarrow, Andrew and Nanglios, South Whoal Francis, South Basset Devon and Courtney, Concord, South Trelawney, East Crowndale, Whoal Franco, Combinating and West Frutheliah Mines, and West Cornwall and Corawall Rallways.

30, Old Broad-street, London.

MESSRS. LINTHORNE, JONES, AND CO., STOCK, MINING, AND SHARE AGENTS,

\*\* Every information will be afforded as to the markets and prices of the above, by application (post-paid) at their offices.

43, THERADNEEDLE-STREET, LONDON.

WHEAL CORNWALL: 100 shares. GWINEAR CONSOLS: 256 shares. CB: 256 shares.—[Dividend of £110s. per s WEST PROVIDENCE: 256 shares.—[Dividend of £1 10s. per share, now payable.]

MR. R. TREDINNICK will be happy to afford parties every INFORMATION respecting the ABOVE MINES, on personal application at his OFFICE, and proffers his SERVICES to CAPITALISTS and ADVENTUREERS in the PURCHASE and DISPOSAL of SHARES of every description.

Mr. TREDINNICK being in constant communication with experienced practical agents in the several mining districts, can, with confidence, recommend to shareholders, desirous of acquiring information from personal inspection of the mines, agents on whose reports overy reliance may be placed.

rery reliance may be placed.

MINING AGENCY OFFICE—THREE KINGS-COURT, LOMBARD-STREET.

MINING PROPERTY.—CAPITALISTS who are disposed to INVEST in CORNISH and FOREIGN MINES, will find the present opportunity very favourable for so doing. From large sums having been lately diverted from such investments for railway speculations, studand naines are now selling at prices that will pay the purchaser 30 per cont. per annum for his outlay. There are also other mines that are on the eye of paying dividends, which can be recommended with confidence.

Applications to be made to Mr. JAMES HERRON, mining agent, No. 3, Adam's court, Broad-streef, London.

MINING OFFICES, No. 1, ST. MICHAEL'S-ALLEY

CORNHILL, LONDON.

Messrs. WATSON & CUELL have received instructions to FURCHASE SHARES in
East Tamar Consols, South Tamar, Copiago, East Rose, Alten, Stray Park, and Mary Ann
Mines; and have Folk SALE, SHARES in all the best DIVIDEND MINES in Cornwall
and Devon, paying from 18 to 20 per cent. per annum.

MR. T. P. THOMAS'S. MINING OFFICES, REMOVED from No. 90, Old Broad-street, to No. 18, THREADNEEDLE-STREET. JAMES LANE, MINING SHAREBROKER, 15, OLD BROAD-STREET, LONDON.

JOHN HARVEY, SHAREBROKER AND ASSAYER WILLIAM TRENERY, DEALER IN RAILWAY AND

MINING SHARES.—ESTABLISHED TEN YEARS.
OFFICES, No. 50, THREADNEEDLE-STREET, LONDON. WILLIAM H. SMITH, MINING SHARE AGENT
10, WARNFORD-COURT, THROGMORTON-STREET.
SHARES in many valuable MINE; FOR SALE, and every information will-soft afforded, on application.

TO BE DISPOSED OF, a FEW SHARES, in a very promising COPPER SETT, situated near St. AUSTELL, in the county of Cornwall.
This being an undertaking of recent establishment, persons desirous of embarking in mining speculations will commence under very favourable circumstances.

For particulars apply to Mr. Charles Goodall, 3, Walbrook-buildings; or to Mr. W. M. Smith, 10, Warnford-court, Throgmorton-street.—Sept. 25, 1846.

WHEAL MARTHA CONSOLS.—TWENTY-FIVE SHARES in this MINE to be DISPOSED OF, at £2 los. per shares a £5 per share have been paid, being the whole amount that can be called for.—Apply to fire of the constant of

WANTED (for export), a SECOND-HAND STEAM-ENGINE, in perfect order, of about 15-horse power—condensing, of good con-struction, Cornish boiler: required for winding and pumping.—Address, full particulars, stating lowest price for cash, delivered on board a vessel, to Mr. Sanders, Tavistash Devonshire.

LTEN MINING ASSOCIATION.—Notice is hereby given, that a DIVIDEND of FIVE SHILLINGS per share, out of profits made in the suff-year ending size March last, will be PAYABLE at this office on Monday, the 26th ast, and every other day in that week; and on Wednesdaysh every week following, beween the hours of Eleven and Three o'clock.—The scrip certificates on which the diviend is claimed, must be left at the office two clear days before the payment can be made.

By order of the board, EDWARD J. COLE, Secretary
Mining Offices, Winchester-house, Old Broad-street, Oct. 9, 1846.

UNITED MEXICAN MINING ASSOCIATION.—The Court of Directors beg leave to inform the proprietors, that the OFFICES association ARE NOW at No. 6, FINSBURY-CIBCUS, instead of No. 6, Great Witgr-street.—London, Oct. 15, 1846.

OFFICE OF THE GOVERNOR AND COMPANY OF COPPER MINERS IN ENGLAND, Old Broad-street, London, October 7, 1846.—The Court of Assistants of the Governor and Company of Copper Miners in England hereby give Notice, that a DIVIDEND, up to Michaelmas last, on the PREFERENCE SHARES capital of the company, will be PAYABLE on and after the 38th fust., at the rate of 71 than the Control of the State of 18 than 18 the State of 18 than 18 the State of 18 than 18 than 18 the State of 18 than 18 tha per cent, per annum.—The series of the court of Assistants,
the office for registration three clear days prior to payment.—Blank forms of lists may be
had at the office.

By order of the Court of Assistants,
W. INGLIS, Secretary.

OFFICE OF THE GOVERNOR AND COMPANY OF

COPPER MINERS IN ENGLAND, Old Broad-street, London, October 7, 1846.—
The Court of Assistants of the Governor and Company of Copper Miners in England hereby give Notice, that a DivIDEND, for the half-year ending at Michaelmas last, has been this day declared, at the rate of 5 per cent. per annum, on the paid-up capital stock of the company, and will be PAYABLE at this office on and after Wednesday, the 38th inst., between the hours of Eleven and Three.

By order of the Court of Assistants,
W. INGLIS, Secretary

LLIANCE GAS COMPANY.—Notice is hereby given, as EXTRAORDINARY GENERAL MEETING of the proprietors of the A Company will be HELD at the house, or office, of the company, titute No. 38 ye-circus, in the city of London, as Friday, fits 30th day of Getober inset, at thus he afternoon precisely, for the purpose of assenting to, or dissenting from, the on of the company.—Dated this 10th day of October, 1846.

By order of the board of directors, J. B. GREAVES, Secret

DATENT IMPROVEMENTS IN CHRONOMETERS
WATCHES, AND CLOCKS.—E. J. DENT. 82, Strand. and 33, Cockspur-street
atch and clock maker, BY APPOINTMENT, to the Queen and his Boyal Highness
tince albert, begs to acquaint the public, this the manufacture of his chronometers
stocks, and colocia, is secured by three separate pistonia, remembried argument is better

Viaduct of Dixay. France.—The works of this great viaduct, commenced only on the 5th of June last, are proceeding rapidly—the foundation having already been laid, and the first piles on the right bank driven. A canal has been cut to carry off the water from the river 300 ft. in length; the foundation is on a large scale—baving been sunk at least 30 ft. before arriving at the solid stratum, which required the excavation of upwards of 30,000 cabic feet of earth or rock. To show the extent of this work of art, we may state, that it has led to the opening of five beautiful granite quarries—the working of which also is carried on with great activity, and they have already yielded some splendid large blocks, which now cover more than one-half of the extensive prairie (meadow) of Vaux. When finished, this will form a useful and splendid specimen of masonic structure.

GREAT BRITAIN MUTUAL LIFE ASSURANCE SOCIETY, 14, WATERLOO-PLACE, LONDON.

THE CHISHOLM, Chairman WM. MORLEY, Est., Deputy-Chairman

OLM, Chairman

"MA. MORLEY, Edg., Deputy-Chairman

"MALE CREDIT RAYES OF PREMIUM."

of Assumes is particularly directed to the Half Credit Rates of Premium,
a saurances may be effected, and loans for short periods secured with the
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possible present outlay, and a test premium that the process of the profession of paging up the saveaux and trinerest—thus becoming entitled to participate in shorte of the profess of the constitution.

Extract from the Half Credit Rates of Premium.

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Extract From the Half Credit Rates of Premium.

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a mpie guaranteed capital, in addition to the fund continually accumulating from the same of the fund continually accumulating from the same of the extent of all offsentied (after payment of five minual premium) to attend and vote at all agreems meetings, which will have the superinstendence control of the funds and affairs of the society.

Il particulars are detailed in the prospecties, which, with every requisite information, be obtained by application to

PATENT CONCENTRATED MALT AND HOP EXTRACT cnables PRIVATE INDIVIDUALS to MAKE

PINE HOME BREWING UTENSIES.—It has only to be dissolved in hot water and formented.—Sold, in Jars, for freeditings and other purposes, at is, and is, det, and in bottles for browing 9 to 18 gallons and upwards of ale, at 6s, 6d, and 18. 6d; and in bottles for browing 9 to 18 gallons and upwards of ale, at 6s, 6d, and 19s, 6d, exch, by the

and in cordes for browing to be games and the second the care and the

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• Quirtis and Che are be be consented daily, in their reindence, No. L. Pfith. at view and conserved daily.

Country Takient are requested to be as minute as possible in the detail of their cases. The communication must be accompanied by the usual consultation fee of Z, and in all cases the most invisible oversey may fit refluid on.

LITERARY NOTICES. 1

LITERARY NOTICES.

Comos: Sketch of a Physical Description of the Universe. By ALEX. Vox HURBOLDY. Translated by Mrs. Sabins, ander the superintendence of Lieut. Colonel E. Sabins, R.A., For Sec. R.S.—Vol. I. London: Longman & Co. The name of Humboldt associates itself with all that is great in science, and investigation into the physical history of the universe; and the volume before us, presenting to the public a digest of his views and observations for more than half a century, is a portion of a work which must be read with intense interest by all who are at all devoted to astronom man: imbited early in life with an irresiatible impulse to the acquisition of various kinds of knowledge, he was occupied for years with separate branches of is lence—botany, goology, disensitary, recognizing, and tert extrain magnetisms a theorem into which, atted him air long and arduous journeyings and is westigations, which be afterwards endertook, both in the Old and New World; there he found that the separate branches of natural knowledge have a rail and intimate pomisection—rendering the studies of the separate sciences of matinal assistance traversing extensive commissing districts, presenting the most striking contrasts—on the one hand, the tropical and alpha society of Mexico and Sauth America; and, on the other, the decay antiformity of the stepper of Northern Asia, here examining the phenomena of volcanic cruption and agency—and there investigating the history of the stepper of Northern Asia, here examining the phenomena of volcanic cruption and agency—and there investigating the history of the stepper of Northern Asia, here examining the phenomena of volcanic cruption and agency—and there investigating the history of the stepper of Northern Asia, here examining the phenomena of volcanic cruption and agency—and there investigating the history of the stepper of Northern States.

Nature in all her operations, which, perhaps, no other living man can beast; and, with a mind prepared to take advantage of those opportunities another the frozen regimes of the next - Hamshold in a head opportunities for winnessing Nature in all her operations, which, perhaps, no other living man can boast; and, with a mind prepared to take advantage of those opportunities, he has now—in the evening of a varied and active live—gives to fice world a work repleto-with formation—and that information of the most important and interesting character. We will not further shed on the merits of a work which will be interesting a work repleto-with formation—and that interesting the state of the measure of the consequence, or self-the interesting the perhaps of the permits of a work which will be interesting appropriated—Teplete, as it is, with a consequence, or self-the interesting perhaps again to the permits of a work which will be interested to the measurement, before us.—" In the Andes of Cundinamarca, theiro, and Pern, introved by deep barrancas, it is permitted to man to contempting all the families of plants, and all the states of bearing the states of the families of plants, and all the states of the families of plants, and the permitted for man to contempting all the families of plants, and all the states of the families of plants, and the states of the states of the ministry of the states of the

the pournal, will be some extracts, when we shall continue to give from time to time.

Harthill's Monthly Telegraphs, or, Radicasy, Coach, and Steam Boat Guide

sill the Convigances connected with Scotland, with the principal Time Tables.

England, Ireland, and Foreign-Parts. Ediaburgh: Barthill and Sons.

In this age of rapidity of francis, and extensive increase of the means of travelling.

In this age of rapidity of francis, and extensive discress of the measure of travelling by railways, steam-boats, and coaches, a publication, giving correct time-tables, fare-lists, and starting points, is of the utmost importance to the commercial man and the public generally. The work before as appears to be for Einbergh and Scotland—what Bradshav's works are for London and England, it commences with well revised time and fare tables for all the Scotland—what Bradshav's works are for London and England, it commences with well revised time and are tables for all the Scotland where the subject of the sound Maneterery, and North Westerri Rubrays. It is contains condensed lists of the sailing of the steam-hosts to and should represent the statement of the sound start of the steam-hosts to and should represent the start of the steam-hosts to and should represent the start of the steam-hosts to and should represent the start of the start of the steam-hosts to and should represent the start of th

misculances information respecting the locomortion of the country. It is published every month; and the number before us being the 28th, we may reasonable conclude, that it is well appreciated by the public for the accuracy of its details. It is not appreciated by the public for the accuracy of its details. It is not appreciated by the public for the accuracy of its details. It is not appreciated by the public for the accuracy of its details. It is not appreciated the rev. gent and that the valuable instrument, although erected about 18 months, had not yet been in complete operation more than three or four months, and already several of the rebule, hitherto not fully examined, were discovered to be a collection of sums; and, with regard to the moon, the doctor stated its appearance to be magnificent; it appearance to be magnificent; it appearance to be magnificent; it appearance if the victor of the rids of Whitby Abbey, might be easily perceived; if they had existed. But there was no appearance of anything of that nature, neither was there my indication of the existence of water, not of atmosphere. Their was my rust number of exister volunness several miles in breath); through one of them there was a line in continuance of one, about 150 miles in length, which, ran in a straight direction like a railway. The general appearance, however, was like one vast ruin of Nature; and nany of the pieces of rock, driven out of the volcances, appeared to be laid at various distances. The doctor said he expected it would soon be computent to deguerotype the image of the moon, upon the speculum, which could not be done a present, at the moon, was not a stationary; but Lord Rosse contemplated a piece of mechanism to move the telescope to a certain distance, with a motion corresponding to the movement of the moon.

calcacope to a certain distance, with a motion corresponding to the movement of the mountains of the mountain and the mountain of the mountain and the mountain of the Association of American Geologists and Naturalists, Mr. J. D. Daxa read a very interesting paper on this satject; it appears, that in all the geologist observations which have been made with regard to the moon, one important feature remained dustify factorily explained—namely; the vast magnitude of all its cruters, which were described by the non-committal term of King mountains, which geologists have not ventured in acknowledge their belief in these inna wonders. Some of these were from 100 to 150 miles in distinctor, and 20,000 ft in depth, and of lesser magnitude; These are strywised as great numbers over the larger part of its acrates. It was not therefore, to be wondered at, that there should be much difficulty in geometric flowers the theoreties, to be wondered at, that there should be much difficulty in geometric flowers with those of venewith and Etna. The crater of Kalinca, in the Hawaiian lelands, is of a wholly different, character. About two-directs of the lunar femisphere, comprosing shore the whole of the

MOTIVE POWER.-Mr. J. Naunyth has patented an improved method of ob-MOTIVE POWERS—Mr. J. Namerals has prisumed in the construction and voolsing of engines in a nevel names, by the agency of steam, or other clearic fluids, or other mean, whereal or agreet remant of powers in obtained than by means ordinarily employed. In this improved plan, two, three, or more cycle and the prison of the pr

cont. upon the original cost of their shares. At was to the capital raised under such tontine, that Plymouth is indebted for that beautiful pile of buildings, consisting of the Royal Hotel, then in the centre of the town. There is, however, a striking difference in principle between that tontine and the one under notice; in the latter, the property will be conveyed, in fee, to the holder of the last shrviving life; in the former, on the dropping of the last life, the whole property, it is apprehended, will revert to the granters. From the very advanced ages of the lives in this toutine, it may reasonably be expected that, in a very few years, the holder of the share on the surviving life will become sole possessor of the valuable property—and this circumstance offers, of countering great advantages, at each annual division of the tests, to these whose nominess may survive the average of the lives amend. The annual divident to such of the proprietors nomines as shall survive, increasing in the same ratio as the lives decrease—for instance, when the lives are reduced to 100, the tenting will produce to each proprietor don't it minually, to 50 about 20, annually, to 25 about 41, annually, to 10 about 10, annually, to 25 about 42, annually, to 10 about 10, annually, to 10 about 10, annually, to 10 about 10, annually, to 10 about 20, annually.

Were this property conveyed in severalty to the proprietors, instead of in the law way proposed each would then the entitled to about a quarter of an access this way proposed the would be a controlled to a distance of a railway station, its value of its fame, will be within se short a distance of a railway station, its value of its fame, and the second of the proprietors in the rails of the second of

# Original Correspondence. 🗸

Mr. JOHN SCOTT RUSSELL'S NEW SYSTEM OF SHIPBUILDING. SIR,-In my letter of the 7th instant, which appeared in the Mining Journal of the 10th, I stated that I could point out numerous other reason goarnat of the 10th, I stated that I could point out numerous other reasons against placing the broadest part of the ship as proposed on the "wave system." Now, something else than assertion will be expected of one having the temerity to call in question the correctness of this favourite hobby of Mr. John Scott Russell's; but "Ne sutor ultra crepidam." I will, therefore, proceed to explain; and, in doing so, will strive to use language which will be understood by the general reader—at the same time, that it carries conviction to the more initiated—rather a difficult task, but I trust to be able to succeed in the attempt.

I will commence by laying down the following proposition, the correct-

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I will commence by laying down the following proposition, the correct ness of which will be at once admitted:—" In traversing a distance coun I will commence by laying down the following proposition, the correctness of which will be at once admitted:—"In traversing a distance equal to her length, a vessel displaces a portion of fluid equal to her weight."—Now, the object to be gained is, to discover how to shape the vessel, so as to make this transposition, with the least possible resistance from the water before the broadest part, which, as I stated in my last letter, is the true measure of the resistance, place it in whatever part of the vessel you will. The resistance before this part arises from three causes—the inertia of the fluid to be overcome, the friction from contact between it and the bows, and the cohesion of the water to the bows and side of the vessel; the two latter much increased by the displaced water accumulating before the broadest part: abaft this broadest part, the shape ought to be such as to enable the vessel to free herself of the water, without any friction, and with the slightest possible cohesion. I will, in the first place, proceed to support my assertion, that, "wherever the broadest part of the vessel is, there will be the greatest amount of resistance to her progress—the amount of which will always increase with the area of that part, place it where you will." When a fluid and a solid meet, the effect of the impression is, at all times, perpendicular to the surface of the solid, in whatever direction they may approach each other; and the more acute the angle of incidence. all times, perpendicular to the surface of the solid, in whatever direction they may approach each other; and the more acute the angle of incidence becomes, the less violent will be the contact. A casual observer would directly say, in consideration of the above law, you must construct a vessel with very narrow wedge-like bows, in order to make the angle at which the water strikes them as acute as possible; but I shall be able to demonstrate that, with a given breadth, the amount of resistance, from the inertia of the fluid, will be the same, arrange the angle of incidence as you will. As a vessel progresses through the water, the whole of the surrounding fluid is pressing upon her equally, and moves in a direction contrary to that of her course, simultaneously throughout her whole length—consequently, the wedge-like shape of bow is useless—the operation being entirely different from that of rending asunder a solid by means of a wedge; but to my demonstration. Let A B be half the breadth of a vessel, the line C A D the direction of the keel, and B C one bow; in progressing she will receive the

one the direction of the keet, and B C one bow; in progressing she will receive the water in the direction of the arrow H: now the angle of incidence will be such as to diminish the violence of the contact in the proportion which the line E F bears to the line C B; and the resistance at any one point in the line C B will be reduced in exactly the some ratio, such likewise will exactly the same ratio: such likewise will be the ease, if the bow was narrowed, so as to represent the line C G,—the resistance at each point of that line being as E F is to C G—infinitely less than it was at C B; but although the violence of contact, and relative resistance in any one report of line C G, is much less than it. point of line, C G, is much less than it is in any one point of line, C B, yet the length of line C G, is just so much longer than the line C B, as to increase the num-

point of line, C G, is much less than it is in any one point of line, C B, yet the length of line C G, is just so much longer than the line C B, as to increase the number of points in contact in so exact a ratio with the decrease of the resistance, that, when one is multiplied by the other, they will give precisely a similar result to the amount of the resistance at line C B, multiplied by the number of points in that line,—the space containing the points of resistance increasing as line C B, or C G, is to E F; and the violence of the contact insered in the contact in the

THE "GREAT BRITAIN"-SUGGESTION FOR HER REMOVAL Sin,—Through the medium of your valuable Journal, I take the liberty of suggesting to Capt. Hosken, and the engineers of the Great Britain, if i is not practicable to avail themselves of the immense power of their steamengines, in assisting to get this noble steam-ship out of Dundrum Bay. Suppose two, or more, of the largest Admiralty anchors, sunk in the best possible position, to which should be attached strong wire ropes, leading to the vessel, and conducted through sheaves, or pulleys, to the main driving-wheel of the enginees (detached from the screw), or any other wheel or shaft which the engineers might think the best; at the same time having some powerful steam-tugs doing all that they could, and working in conjunction with the 1000-horse power of the Great Britain—certainly this immense combination of power would have some effect in moving this noble vessel from her much-to-be-deplored situation.—ALVAN PENRICE.

Workington Colliery, Oct. 10. r valuable Journal, I take the liberty ble vessel from her much-to-be-d Workington Colliery, Oct. 10. —

THE "GREAT BRITAIN" STEAM-SHIP-ANOTHER SUGGESTION. Sir.,—I am thoroughly convinced of your generous and prompt assistance to aid every leadable effort for the advancement of our scientific and commercial pursuits—and bog, through the medium of your influential Journal, to suggest a plan to get off the Great Britain steamer from her present situation. I would propose to fix a number of beams across her decks, strongly fastened to the body of the vessel; these beams to project on each side, to which should be appended large floating cisterns, reaching downwards nearly to her keel; the length and number of beams across her, and width and depth of cisterns, to be left to the discretion of the engineer, who, of course, knows the position of the steamer; but I have no doubt such plan, properly applied, and taking advantage of a high tide, and powerful steam-tugs, would release her from her unfortunate situation.

Aberdare Iron-Warks, Oct. 15. \_\_\_\_\_\_ L. Richards (moulder.)

THE "LOCAL ATTRACTION" OF A SHIP.

Sin,—Whether the loss of the *Great Britain* be justly attributable to a derangement of her compasses by local attraction, as stated, or not, it is an event by no means improbable, and certainly means should be employed to guard against such contingencies. The local attraction on slipployed to guard against such contingencies. The local attraction on ship board now is of vast amount, arising from the introduction of iron cables iron tanks for water, &c., in addition to the ordinary materials of that metal, increased infinitely in the case of steamers, and, above all, of ironmetal, increased infinitely in the case of steamers, and, above all, of ironbuilt steamers. Why is Professor Barlow's "correcting plate" not used it is founded on sound scientific principles; and the local attriction of ship is, by its judicious employment, most surely neutralised and rectified. I have one of them in my possession, and tested it; I, therefore, speak advisedly, when I repeat, its principle is founded on a well-known and reconsidered law in magnetism.—J. MURRAY: Portland-place, Hull, Oct. 14.

SMITH'S PADDLE-BOX LIFE-BOATS.

SMITH'S PADDLE-BOX LIFE-BOATS.

Sir,—Want of reflection and recklessness of consequences seem to characterise the vast majority of our race—"Hya deux sortes des gens dans le monde, ceux qui pensent etceux qui ne pensent pas," is atruism beyond appeal. Worthless seem to be the inquiries and recommendations of our Legislative Commons in the matter of shipwreck—a conclusion at which I have arrived at, finding how very rarely Smith's paddle-box life-boats are employed, though so strongly recommended by the Commons' Committee. On visiting the dock-yard of Southampton, two or three days ago, I confess I was surprised to see that only one, the Medina, West India steamer, was supplied with Smith's paddle-box life-boat. Why is the Oriental (e. g.) about to proceed shortly to the Black Sea, without this necessary adjunct to safety? It takes up no room, and interferes but slightly with symmetry; and what is symmetry compared with the right estimate of human life?—"Less than nothing, and vanity."—J. Murray: Portland-place, Hull, Oct. 13.

### A FAUVELLE'S NEW SYSTEM OF BORING.

FAUVELLE'S NEW SYSTEM OF BORING.

Sir,—I have read the statement of this new system of boring, which appeared in your valuable Journal of the 26th September, and I wish to call the attention of our enterprising countrymen to it. I have an estate, which, in the opinion of practical and scientific men, who are acquainted with it, contains a deposit of ironstone and the ten-yard coal; and twice has the operation of boring been applied, but each time in vain—for when the borers, who were men of straw, got to the depth of 150, and the second time to 220 yards, they contrived to break their rods, and thus relieve themselves of the great labour of executing their contract. Now, if some engineer of spirit (or if a company can be formed) will introduce this new system, and thus give a guarantee to proprietors, that they may, without risk of incurring uscless expense, have their estates fairly examined, I have no doubt, from the great demand, and, in many places, great scarcity, of coal and ironstone, he (or a company) will soon find an ample remuneration for the application of his skill. Indeed, it strikes me that this invention, if a substantially good one, will open a mine of wealth, not only to the proprietors of land, but to any one, who will introduce it amongst us.—An Adminer of your Journal: Glasgow, Oct. 6.

### VENTILATION OF MINES.

Sin,—As every suggestion for the better ventilation of coal mines is acceptable to you, I beg to offer the following:—By attaching a blowing cylinder to the engine (which draws the coals up the pit shafts), and pipes therefrom into every compartment of the mines (just in the same way that gas is conveyed through a mansion), a considerable quantity of pure air may be conveyed for the benefit of the miner to any extent—and, when discharged from the pipes, will pass through the workings to the upcast discharged from the pipes, will pass through the workings to the upcast shaft, as in the ordinary way, and, consequently, will cause better ventilation. Should you consider the above worthy a corner in your very valuable Journal, you will oblige by its insertion.

A Subscriben.

Oldbury, Oct. 13,

X ST. MAURICE IRON-WORKS, LOWER CANADA.

SIR,-I notice that you make a few remarks, in the Mining Journal of last week, respecting the iron-works situate near Three Rivers, Lower Canada. I was employed at these St. Maurice Iron-Works for four years and can, therefore, add to your information some particulars about them The Hon. Matthew Bell held a long lease of the works, which expired n the spring of the present year; he is as worthy a man as ever lived, and a Scotchman too; for nearly 50 years he has worked them with great economy, and has amassed a large fortune, so that he can well afford to allow them to pass into other hands, which they have done. These works are situate about seven miles from the town of Three Rivers, on the River St. Maurice; they have been in existence for many years; they were worked by the French up to the time we conquered Canada. The old-fashioned water-wheels which blast the ore, while undergoing the process of melting, have been renewed again and again on the old French system; and, in have been renewed again and again on the old French system; and, in fact, so complete and economical are the works, that it would be impossible to improve on them, or add to their simplicity, by any modern invention of ours. The ore is procured from the bogs in the neighbourhood, and is what is called bog ore; it is found in layers of 6 in. to 1 ft. thick, scarcely 1 ft. from the surface; the men employed to search for it go into the woods, and with small borers, with which they bring the earth to the surface, to the depth of 2 or 3 ft.; when they find a bed of ore, they mark the spot, and a number of hands are immediately set to work to raise it in heaps; these heaps remain in the woods until the depth of winter, when the rivers and marshy places are frozen so hard that they can renture with heaps; these heaps remain in the woods until the depth of winter, when the rivers and marshy places are frozen so hard that they can venture with horses and sleighs to convey it to the furnace. This ore is very rich in iron, but I cannot now remember the per centage; from the length of time these works have been in operation, the ores have been removed for many miles round; I believe it was no uncommon thing when I was there for the ores to be conveyed a distance of 15 to 18 miles before they reached the works. All the ore is reduced by charcoal, and this article is made and carted as great a distance as nine miles from the furnace; hundreds of screes of hard wood have been burnt for this purpose, and the land perfectly cleared—but, woe to the climate, no Englishmen would cultivate it, although the soil is rich enough to produce many of the necessaries of life. The hammered iron made at these works is equal to any Swedish ever produced; it is principally used for making axes for the Canadian to hew his timber, and for horse-shoes; it is in great repute in Canada, and sells freely at 25l. per ton for the former, and 25l to 30l. per ton for the latter; produced; it is principally used for making axes for the Canadian to hew his timber, and for horse-shoes; it is in great repute in Canada, and sells freely at 25*L* per ton for the former, and 25*L* to 30*L* per ton for the latter; when I name these prices, I, of course, mean Halifax currency. Canada was at one time entirely supplied with stoves from these works; their superiority, as regards durability, far exceed anything of the kind manufactured in the United States or Scotland; the proprietor got such enormous prices for his manufacture, that the Americans grew envious, as well as the Scotch agency houses there: and now the market is quite elected with prices for his manufacture, that the Americans grew envious, as well as the Scotch agency houses there; and now the market is quite glutted with their inferior articles. The superiority of the St. Maurice stoves consists in their not cracking, or at least very seldom, when compared with other, although exposed to heat, which is nearly red at times; especially when the Canadian winter is at its height, and the thermometer ranging from 20° to 30° below zero, not freezing point. You say that these works turn out many thousand tons of iron per annum. Now, this is a mistake; about 600 tons of bar-iron, and 1200 to 1500 tons of stoves and other castings, is near the annual produce of the St. Maurice Iron-Works. The River St. Maurice is navigable for craft of about 20 tons, as high up as the iron-works—and, indeed, further for flat-bottomed boats—but the current is very rapid, and the boatmen have, during the months of May and June, great difficulty in pulling up their boats, in consequence of the freshets which then rush down the river from the melting of the snow, in the far north—indeed, as far north as Hudson's Bay: in July, Angust, and Sept, the river is at its lowest; and, with a rope attached to the boat, the men haul it along as they walk on the banks, which they are obliged to do in two or three places, where the current is too rapid for their doing otherwise. The manufactures of the St. Maurice Works are distributed by agents all over the Canadas; and, in fact, some of them find their way to the fishing stations on the Labrador coast and Newfoundland. I have sketched out the above recollections of my sojourn at these works, which, I trust, may be of interest to your readers—they are facts, and, perhaps, you may think it worth your while to give them insertion in your Journal. London, Oct. 13.

DERANGEMENT OF ELECTRIC TELEGRAPHS DERANGEMENT OF ELECTRIC TELEGRAPHS.

Sir.—The effects of lightning on the wires of the electric telegraphs in America, as announced by the distinguished French astronomer, M. Arago, are not dissimilar to what has occurred in this country, and is a result not to be wondered at; but it is certainly extraordinary, that those who erected them, should not have made any provision for a contingency so natural. I have already pointed out the means of a certain security, and the provision is simple. As the supports of the telegraphic wires are too far assunder for the upright wires to be fully protective, intermediate poles for these conductors will be necessary; bearing in mind, that their protective influence is double their radius—at least, it would not be prudent to adventure more. The "Fost being splin," is a full proof of the truth and justice of my remarks and recommendation. Had the posts been supplied with copper wire, in the manner of the paragrele, they would not have been rent.—J. Murray: Portland-place, Hull, Oct. 14.

LAW OF RESISTANCE TO LOCOMOTIVES.

LAW OF RESISTANCE TO LOCOMOTIVES.

Sir.—I noticed, in your Journal of Saturday last, an extract from a paper by Mr. J. S. Russell, read at the meeting of the British Association, at Southampton, in which he states the "laws of resistance to locomotives;" and, having perused with much interest the different opinions entertained concerning Mr. Greenhow's Geometrical Railway System, and the oftimes certainly not very courteous style of argument exercised by some of the writers, I could not but be struck with the carious coincidence between the results of those experiments, and the law laid down by Mr. Greenhow in his pamphlet, which fully bears them out, for at page 21 he says—"When any body is sustaining another, which is moving at great speed, the weight borne by the supporting one is diminished in an exact ratio to the increase of the distance passed over by the moving body in one second of time; because the force of the gravitation within that space of time being about equal to 16 feet, the weight to be sustained will diminish as that quantity is to the number of feet passed over by the body in motion in the like time; therefore, when the rate of speed is at 50 miles an hour, the gravitation, or, more properly speaking, the pressure, of one body upon the other, will be reduced in the proportion which 16 bears to 73\frac{1}{2}, or to less than one quarter of what it would be were the body moving only at 16 feet per second; therefore, a locomotive weighing 20 tons will only require a support equal to about 4 tons 7 cwts., when progressing along the rail at 50 miles an hour—consequently, the friction between the moving parts does not increase in the same ratio with the velocity, because the force, or violence, of the contact diminishes as described."

J. S. Flaxman.

Knightsbridge, Oct. 13.

CONSTRUCTION OF RAILWAYS—SUGGESTIONS TO ENGINEERS.

CONSTRUCTION OF RAILWAYS—SUGGESTIONS TO ENGINEERS.

Sir,—Presuming on the ready kindness with which you have ever given space, in the columns of the Mining Journal, for my previous effusions, I am so unreasonable as again to request you to give place to one letter more—mind, I do not promise it will be the last, as we are too apt to do when craving favours, without the slightest intention of abiding by the promise, should future circumstances render it desirable to forget it: I will, therefore, act with more ingenuousness, and frankly confess that I may be induced to trouble you again. My reason for writing just now is, that some of my friends, who are aware of my identity with "Q. E. D.," have intimated that I was too severe in my strictures on the engineers, in my letter of the 16th Sept., which appeared in the Mining Journal of the 20th. Now, I do not agree with them in thinking so: I did not speak of an individual, but a body of individuals, into whose hands the force of circumstances has placed the entire arrangement of the internal communication of this mighty empire; and as their veto may decide, be it influenced by interest or caprice, so run the channels of international intercourse,—and which, right or wrong, must remain heirlooms from generation to generation. In after times, when railways become better understood, posterity will ask, why was not a more direct route taken, and a better principle apof this mighty empire; and as their veto may decide, be it influenced by interest or caprice, so run the channels of international intercourse,—and which, right or wrong, must remain heir/doms from generation to generation. In after times, when railways become better understood, posterity will ask, why was not a more direct route taken, and a better principle applied to the construction of works intended for continued and permanent application? We may well suppose, that, a line once completed, with its stations, cuttings, tunnels, embankments, and bridges, not to take into account the great value of the land destroyed, it will then be too late to discover that a more eligible line of route might have been taken, or a more convenient level adopted. I would, therefore, suggest that engineers ought to pause, and well consider the subject,—taking care to fully ascertain the peculiar features of each locality, to satisfy themselves that the structures intended to be creeted are those best adapted to the circumstances, and not rest satisfied that, because a certain mode of structure answered in one place, it necessarily must do so in another, until they are awakened from their dream, by the development of causes and effects, which a little forethought and inquiry might have foreseen and provided against. I speak advisedly when I say, that many lines have been laid out without the engineers having personally passed along the whole distances, so as to make himself conversant with the nature of the soil, or the geological features of the country, in such a manner as to be enabled to avail himself of the country in such a manner as to be enabled to avail himself of the construction of the works, greatly diminish the outlay of capital. There are instances on record, of stones being brought from a great distance over sea, to construct the masonry on railways, when stone quite as good, if not better, abounded in the neighbourhood, and was ready to hand, without the expense of carriage, had the parties laying out the line be

THE EUPHONIA, OR SPEAKING MACHINE. THE EUPHONIA, OR SPEAKING MACHINE.

Sin,—Your columns have embraced a paragraph, respecting the speaking machine, now exhibiting at the Egyptian Hall, Piccadilly. In a hurried transit through London, I called to see it, and must acknowledge the high gratification I received from this visit to M. Faber's singularly successful and elaborate mechanism—the "speaking automaton"—an "Andros," the most curious I ever witnessed, and which leaves immeasurably behind, and casts into the shade, all previous attempts to imitate that amazing gift of the Almighty—the human voice. I consider this wonderful achievement a chef deuere of the skill and contrivance of man! Prof. Wheatstone's contrivance was a mere toy in comparison, and to refer to the vox humana of the organ, in association with M. Faber's invention, is infinitively ridiculous! Its enunciation is wonderfully distinct, notwithstanding it appulogises for "speaking with a foreign accent" to an English car. Its language and its laughter—its whispers and its song, with articulated words—were all truly marvellous. The pronunciation of "manna" and "pap, albeit the most simple, were so fraught with the atribute of babyhood as to be quite startling. I indeed, wonder this modern Frankenstein did not start at the first articulate sounds of his own automaton! J. Munax, Portland-place, Hull, Oct. 13.

ADULTERATION OF FLOUR, &c.

ADULTERATION OF FLOUR, &C.

Sin,—Under the above title, you have a paragraph recome the use of the soluble extract from hean in not water. I thin tion an important one, not on account of more around gained of that I have no experience whatever—but from the last, che

idered, of the extract containing highly nutritions matter lost in the ection of the bran, which, indeed, embraces the most valuable part of sidered, of the extract containing highly nutritions matter lost in the rejection of the bran, which, indeed, embraces the most valuable part of the
grain—hence the superiority of "seconds" flour over that which ranks first
in popular estimation; but popular predilections are no test of genuine
worth—indeed, it generally lies in the opposite direction. For my own
part, I invariably prefer brown to bleached bread, when deprived of excellent "home made." We intend forthwith to adopt the recommendation.

The direct dates Hull Sont 28. Portland-place, Hull, Sept. 28.

ON THE CAUSES OF HEAT—DR. PAYERNE.

pert, I invariably prefer brown to bleached bread, when deprived of excelpert and-place, Hull, Sept. 28.

ON THE-GAUSES OF HEAT—DR. PAYERNE

Rearscrap Fram. The various theories given to the world at different times, to illustrate the causes of heat, light, and electricity, although
now considered vaque and improbable, have not been followed by explanations which might be said to set the matter at rests—but have been succeeded by theories, which have been, for the most part, refuted. Thus we
have been told, that the sun was an immense globe of fire, the heat of
which was so intense that it was distributed to the planets—those nearest
the sun having, of course, the greatest share; while Herschel received only
drough to prevent its being totally frozen. Then our planet, we were told,
was also a globe of fire, covered by a thin cruss of earth, which was also
a globe of fire, covered by a thin cruss of earth, which was through which the high-pressure heat found its exit into the atmophere; the air being the condensor for the supershumdant enlore. How
we were preserved from being roasted between two such formidable furmaces was not accounted for by these pilicsophers; but, probably, some of
them expected our planet to explode some day. The theory, however,
exploded instead; for I presume, that few persons still believe the earth to
be in a state of fusion in the centro—the idea is too wild to be seriously
entertained. In a former Number of the Mining Journal, I had adverted
to the subject of heat, in allusion to the working of deep mines. I then
stated my conviction, that heat is the result of the combination of different
imponderable fluids—this combination obtains, and adverted
to the subject of heat, in allusion to the working of deep mines. I then
stated my conviction, that heat is the result of the combination of different
imponderable fluids—this combination of mobilistive
ing cause; and to this source, I thought, mightbe traced those various phenomena which have such power on matter. I again rec would be required every day, and then what would become of the stellar fluid in the night? would it be lost in immensity, by separating itself from the planetary fluid, as far as the sun would be lighting another part of the globe? This would be certainly, to use the words of the doctor, a "complicated theory." I do not believe that any matter reaches us from the sun; but that the sun acts simply as an exciting cause on imponderable fluids. If we consider the result of the power which the sun's attraction exerts on the planetary system, we can concentrate it in one word—motion; by this power the planets turn on their axes, find are whirled round the sun—there being a tendency in every particle of matter to move as the result of that power. Now, may we not suppose that the same power has considerable influence on the subtle imponderable fluids which exist in one atmosphere, causing them to enter into combination, or putting them in mortion? The effects of this power must, of course, be folt more at that part of the globe which is more directly opposite the sun—the equator—and gradually diminish as it approaches the poles. If this theory is correct, we might attribute natural and artificial heat to the same remote cause—the combination and motion of particles; for I think it probable that, in producing artificial heat, we do nothing more than change the position of particles as regards one another—the intensity of the heat being proportioned to the rapidity with which the combination and motion of these fluids take place. I think that the remote cause of heat may be traced to this source, and perhaps, also, of light and electricity. In alluding to attraction, I do not mean to infer that it is simply a property of matter. I suppose it is rather the result of another remote cause; but it is not essential to examine what that cause may be, to elucidate the above theory, since attraction is universally allowed to exist.

\*\*DIRACY OF INVENTION\*\* universally allowed to exist. Liverpool, 10 mo., 12th.

Sin,—Allow me, through your widely-circulated Journal, to appeal to the mercantile classes of the metropolis, to men of science, and particularly to inventors, on the principle of common sympathy. I was a competitor for the premium for the late postage plan—several details of which, of my invention, were pirated, without any communication being made me, except an acknowledgement of the receipt. Among other securities, I suggested the thread to be manufactured in with the paper, as a protection from forgery. There has since been a long correspondence, and a memorial on the subject; and all the answer or redress I can obtain is, that the thread was the invention of others. I applied for the mem of the person who had conceived the PIRACY OF INVENTION.

There has since been a long correspondence, and a memorial on the subject; and all the answer or redress I can obtain is, that the thread was the invention of others. I applied for the name of the person who had conceived the idea, and made it known before the day fixed for the delivery of the several plans; but none has been furnished me. As all redress from the proper authorities appears to be denied me, I make this public statement, to put inventors on their guard how they give up their discoveries to public bodies, as it is contrary to reason and justice that any part of an advertised-for plan should be made known before the day mentioned, or appropriated without previous communication with the inventor.

Penzance, Sept. 16.

A. T. J. MARTIN.

RAILWAY DEPOSITS.—The Act of Parliament, to amend the 1st and 2d Vicac, 117, for providing for the custody of certain money paid in pursuance of the Standing Orders of either House of Parliament by subscribers to works or undertakings to be effected under the authority of Parliament, took effect on the 18th of June isst, when it received the Royal Assent. In repealing the Act mentioned, it is specially provided that all sums pidi under its provisions should be dealt with in all respects an if the present Act had not been passed. By the second clause authority is given to deposit, and by the next the manner of payment is stated, and by the fourth deposits are to be invested. The fifth section of Parliament application by petition to the court, in the name of whose Accountant-General the money was deposited, is to be presented, and the money paid out on the certificate of the Chairmaner Speaker of either House, that the petition or bill was not allowed, or that the Act was passed,

# Mining Correspondence.

ENGLISH MINES.

BARRISTOWN.— The lode in the 24 fm. level, west of engine-shaft, is much the same as last reported. The lode in the 18 fm. level end, west of flat-rod shaft, produces about 14 ton per fm. The lode in the western winze, sinking under the 12 fm. level, is considerably improved, producing at present about 1 ton per fm; the end west from this winze, is producing 1 ton per fm. The end west of Nangle's shaft, is at present producing less ore than last reported. We have had a discovery in a pitch east of flat-rod shaft this week, which improves our prospects in that part of the mine; the lode through the slide, in east end, 18 fm. level, producing about a half ton per fm. We have nothing new to report upon at Clon Mines.—T. Angove: Oct. 10.

BEDFORD UNITED.—At Wheal Marquis, the lode in the 80 fm. level east is 2 ft. wide, producing stones of ore in places. In the 70 fm. level east the lode is 24 ft. wide, and will turn out about 24 tons of ore per fm.; and in the stopes, in the bottom of this level, the lode is still worth 20 f. per fm.; the lode in the wize, in the 65 fm. level east is 3 ft. wide, saving work. At Wheal Tavistock, there is no alteration in the 47 fm. level east or west since last report. The lode in the 35 fm. level east is 3 fn. wide, composed of spar, mundic, and ore, saving work; in the south engine-shaft the lode is 6 ft. wide, composed of gossan, spar, and stones of ore in places; the lode in the adit level east is 2 ft. wide—gossan and spar, with stones of ore—J. PHILLIPS: Oct. 13.

CALLINGTON.—Johnson's engine-shaft is sunk 12 fms. 2 ft. below the 112 fm. level, ground hard; at this level, driving east, Johnson's lode is 3 ft. big. composed of quartz, numdic, and clay slate, intermixed with good stones of it and copper ores; we have met with another branch of the lead lode here, about 6 in. wide, intermixed with silver-lead ores, in the north end we are opening tribute ground. In the 100 fm. level north, the lode is hove by a small cross branch; in the south end the lode is pro

have sold at 211. 3s. per ton.—J. T. PHILIPS: Oct. 12.

CARADON WHEAL HOOPER.—I beg to hand you my report of this mine, with a detailed statement of our operations during the past four months. Since our meeting in June, a whim-plat has been cut at the 30 fm. level, the shaft divided, the ground cut for cistern, and the lift fixed in it. The engineshaft has been sunk 45 fms. below the 30 fm. level; 8 fms. have been taken to sink for 1201, which will put the shaft down 41 fms. below surface, and which we expect to complete in about eight weeks from this time; at this point I should recommend a cross-cut to be driven north and south, to intersect all the lodes in the sett; the ground in the shaft is a light blue killas, interspersed continually with branches, composed of peach, spar, and mundic, with some fine spots of yellow copper ore, and altogether I never saw ground more congenial for copper. A cross-cut has been driven south 14 fms., at the 30 fm. level; and Dawe's lode has been driven on east of cross-cut 8 fms., where it is full 7 ft. wide, but not rich. A cross-cut has also been driven north 15 fms., to cut the Saw-pit lode; but, owing to its underlaying more than was at first calculated, we have still 4 to 5 fms. to drive to intersect it.—J. Sexmour. Oct. 1. CONSOLIDATED TRETOIL.—The lode in Henwood's shaft, sinking under

cut the Saw-pit lode; but, owing to its underlaying more than was at first calculated, we have still 4 to 5 fms. to drive to intersect it.—J. Seymours: Oct. 1.

CONSOLIDATED TRETOIL.—The lode in Henwood's shaft, sinking under the 70 fm. level, is 2½ ft. wide, producing saving work; in the 70 fm. level east the lode is 1 ft. wide, orey throughout. In the 60 fm. level, west of William's shaft, the lode is 6 in. wide, at present unproductive. In the 50 fm. level, east of Henwood's shaft, the lode is 9 in. wide, opening tribute ground; in the 50 fm. level, east of John's shaft, the lode is 15 in. wide, producing saving work—improved since last reported.—H. Williams: Oct. 13.

CUBERT SILVER-LEAD.—The ground in the engine-shaft is rather of a hard killas nature, mixed with hard floors of spar. At the 25 fm. level, going east, the lode is 9 in. wide, yielding good saving work, and leaving moderate tribute ground; going west, at this level, the lode is worth about 1 ton of ore per fm. At the 15 fm. level west, in the east of Falmouth land, the lode within the last two days has improved—being now 1 ft. wide, producing some rich stones of lead for several fathoms driving—of late, this end has been unproductive; in this level, driving east, the lode at present is worth able at one of ore per fathom. With respect to the tribute department, on the whole, the pitches are looking favourable. We sampled, to-day, computed 51 tons of rich silverlead ores.—Richard Rowe: Oct. 9.

EAST TAMAR CONSOLS.—At Whitson, in the 54 fm. level, north and

EAST TAMAR CONSOLS.—At Whitson, in the 54 fm. level, north and south of Hitchins's shaft, the lode is 2 ft. wide, good saving work. I have put the shaftmen to cut a plat at this level to prepare for sinking, which I shall commence as soon as possible. In the 46 fm. level south the lode is 18 in. wide, good work. At Furzehill, in the 38 fm. level, north and south from Harrison's engine-shaft, the lode is 2 ft. wide, good work; our machine-house is up, and the engineers have commenced putting in the machinery for our crushers and stamps. We have sampled, on Friday last, 40 tons of silver-lead ores.—B. ROBINS: Oct. 13.

sampled, on Friday last, 40 tons of silver-lead ores.—B. Robins: Oct. 13.

GRAMBLER AND ST. AUBYN.—Labour cost for the months of July and August, 7784. 4s. 4d.; merchants' bills, 2621. 16s. = 10411. 0s. 4d. By copper ores sold, 23d July, 10521. 7s. 7d.; tin ores sold, 9th Sept., 551. 15s. 9d. (deduct lords' dues, 644. 8s. 8d.) = 10431. 12s. 8d.—profit, 2f. 12s. 4d.; balance due purser last account, 2621. 1s. 4d.: now due purser, 2594. 9s.

GREAT WHEAL MARTHA CONSOLS.—We beg to inform you, that the pit work in the new engine-shaft is completed, and every preparation is made for sinking 20 fms. deeper—10 fms. of which we set to sink for the sum of 1704, the cost of whim driving and landing included. We have adopted this method to expedite sinking; and we are thoroughly convinced that the work will be thus prosecuted at a saving to the adventurers. The men formerly engaged in driving the deep end west, have to be removed to open on two large lodes in Sharrall's bottoms—a piece of ground lately added to this extensive sett; the result shall be made known to you in our next report.—John Phince; Thomas Penaluna: Oct. 10.

GUNNIS LAKE.—At Chilsworthy, the lode in the 12 fm. level, west of

GUNNIS LAKE.—At Chilsworthy, the lode in the 12 fm. level, west of Bailey's engine-shaft, is 25 ft. wide, producing some good saving work; the ground in the plat proving harder than anticipated, will prevent its completion before the end of the present week.—W. RICHARDS: Oct. 18.

before the end of the present week.—W. RICHARDS: Oct. 18.

HAWKMOOR.—In the 15 fm. level, east of Hitchins's shaft, the lode is 2½ ft. wide, composed of capel, spar, and mundic.—P. RICHARDS: Oct. 13.

HANSON.—I beg to say, in Stainsby's engine-shaft, now sinking under the 22 fm. level, the lode is 3½ ft. wide—a strong lode, with some ore; now under the 22 about 8 fms. 3 ft. The rise in the back of the 22, on Stainsby's lode, east of engine shaft, and the winze sunk under the 12, on caunter lode, is holed; and the back of the 22 from the present end, and 8 fms. west of rise to James Hosking's pitch, is set on tribute for 7s. in the 1t.—Z. WILLIAMS: Oct. 12.

HERODSFOOT.—The sinking is going on favourably, in congenial ground; and if the lode continues to improve, in the same degree, at the next level, there will be a moderately rich mine open; and if it be only so good as above, it will handsomely pay for opening for tribute. The 52 end, extending south, continues a good orey lode, from 2½ to 3 ft. wide, saving work. The lode is not yet cut at Boase's shaft.

cut at Boase's shaft.

HOLMBUSH.—I beg to inform you, that since the alteration in our pitwork the engine is keeping the water in fork, at the rate of 24 strokes per minute; the shaftmen are now busily engaged in dividing and casing the engane-shaft from the whim-shaft, from the 110 to the 120 fm. level. The ground in the 120 fm. level, south of Hitchins's shaft, is favourable for driving; in the same level, driving east of Hitchins's shaft, the lode is 12 in. wide, and worth 7l. per fm. In the 120 fm. level, west of the winze, the lode is 12 in. wide, and worth 8l. per fm. The lode in the rise, above the 110 fm. level, on the north part, is 10 inches wide, and composed of mundic and stones of ore; in the 110 fm. 10 inches wide, and composed of mundic and stones of ore; in the 110 fm. level south the ground is favourable for driving, and is producing stones of lead in the flookan part of the lode; we have not taken down the lodes from the stopes in the bottom of the 100 fm. level, on the north part; in the 100 fm. level south the lead lode is 5 ft. wide, composed of flookan, prian, and stones of lead; two of the pitches in the back of this level are producing some very good lead, and the men are making fair wages. We sampled on Thursday last our lead ores, computed 12 tons, leaving out 3 or 4 tons that is mixed with white iron and mundic, which requires the process of burning before we can dress it, as it should be dressed to offer for sale,—W. LEAN: Oct. 13.

should be dressed to offer for sale.—W. LEAN: Oct. 13.

LEWIS.—At Wheal Nutt engine-shaft, the lode in the 60 fathom level end east is 18 in. wide, producing some goodwork for tin, and very promising; the lode in the 60 west is 4 ft. wide, composed of spar, mundic, peach, &c. The lode in the 50 east is 23 ft. wide, worth 100, per fin. for tin; the 50 west is suspended, in order to put the men to drive south to cut the south branch at this level. The lode in the 40 ftn. level end east is 2 ft. wide, worth 50s, per fin. for tin; the lode in the 40 ftn. level end, west on south branch, is 8 in. wide, worth 40s per fin. for tin. The lode in the 30 ftn. level end, east on south branch, is 8 in. wide, worth 40s per fin. for tin. The lode in the 30 ftn level end east is 1 ft. wide, yielding some tin; the lode in the 30 end west, south branch, is set at 10s. per fin., and 10s. tribute for the tin; we are also continuing to drive south at the 30 ftn. level from Oak shaft—ground harder than usual. We are also continuing to drive north at the 20 ftn. level from copper ore shaft—ground favourable for driving—where we expect to intersect the north lode, or lode in Bush shaft, in the course of this month. Our tributers at the 10, 20, 30, 40, 50, and 60 fm. levels, are making fair wages at their different tributes. The masons will complete the walls of the stamping engine-house on Thursday next, should the

weather prove favourable; and, in four weeks from that time, I hope we shall get our stamping machine to work.—S. S. NOKLL: Oct. 10.

get our stamping machine to work.—S. S. Nor.L.: Oct. 10.

MENDIP HILLS.—The men at Stainsby's have not yet finished the timbe work necessary, previous to sinking this shaft; but hope it will be completed by to-morrow evening, when they will immediately proceed to amk with all possible dispatch, as I am auxious to see this lode at a much deeper point. In the 25 fm. level, north of Barwell's shaft, the lode is increased in size since my last report—being now 3 ft. wide, consisting of quartz, carbonate of lime, and flookan; ground not quite so hard for driving as it has been. In the 20 fm. cross-cut, west of new shaft, the ground continues hard for driving.—F. C. Harrur; Oct. 12:

TARPUR: Oct. 12.

PENTUAN WHEAL MARY.—The main lode is discovered further south, eing about 3 ft. wide, showing a beautiful gossan. We have also traced Polooth rich caunter lode, and find it to intersect all of our lodes which are at resent discovered; if it has the same effect in our set, that it has in Polgooth, re cannot fail having a rich mine.—James Chyroweth: Oct. 14.

we cannot fail having a rich mine.—James Chywowrii: Oct. 14.

TAMAR SILVER-LEAD.—In the 160 fm. level the lode is 9 in. wide, composed of mundic and ore. In the 145 fm. level the lode is 6 in. wide, unproductive. In the 135 fm. level the lode is 16 in. wide, unproductive. In the 135 fm. level the lode is 18 in. wide, 1 ft. of which is good work. In the 115 fm. level the lode is 9 in. wide, 1 ft. of which is good work. In the 115 fm. level the lode is 9 in. wide, producing work of a promising appearance. In the 105 fm. level, horth of the shaft, the lode is 1 ft. wide, composed of capel and ore, saving work, but not rich. The incline plane shaft is sunk 8 fms. below the 115 fm. level, and the ground favourable for sinking. We sampled on the 3d inst, 95 tons 18 cwts. 3 qrs. of rich silver-lead ore. At North Tamar, in the engine-shaft the lode is 18 in. wide, composed of capel and mundic, unproductive. In the 60 fm. level, north of the shaft, the lode is 2 ft. wide, orey throughout. At Wheal Hancock, we are still cross-cutting east, and the ground favourable for driving. At Hole's Hole, we are cross-cutting west, the ground is composed of porphyry stone, which is very hard; we have seen some good spots of silver-lead orejin the course of driving.—James Spracue: Oct. 12.

TINCROFT.—We have commenced driving towards the lode at the 100 fm.

hard; we have seen some good spots of silver-lead orejin the course of driving.—James Spraague: Oct. 12.

TINOROFT.—We have commenced driving towards the lode at the 100 fm. level from new engine-shaft, and have passed through one branch containing some good quality ore. The lode in the 90 fm. level east is large, with some good quality ore, but not to value; we have not seen the lode beyond the cross-course in the 90 west. The lode in the 80 east is 2½ ft. wide, with some ore, worth 60, per fm.; the lode in the 80 west is 2 ft. wide, worth 150, per fm.; we have just now holed a winze on this end, and shall now set a pitch in the back of this level; we have a winze sinking in the bottom of this level, where the lode is about 3½ ft. wide, worth 262, per fm. The lode in the 70 east is 3 ft. wide, worth about 122, per fm.; the 70 west is worth 102 per fm. The lode in the 50 west is worth 64, per fm. for tin; two or three of our pitches have very much improved since our setting. At Palmer's, no alteration in the shaft below the 70; the lode in the 70 west, just now seen beyond the cross-course, is yielding some copper ore, and kindly. The lode in the 60 west is worth 162, per fm.; our pitches, in this part of the mine, continue to produce fair quality work. At the south mine, our sumpmen continue to break good work for tin from the stopes to the east of the shaft. The lode in the 152 west is 2 ft. wide, worth 204, per fm.; the back of this level is now working at a third tribute. The lode in the 142 east is 4 ft. wide, worth 304, per fm. The lode in the 110 east is large and tinny throughout, worth 304, per fm. The lode in the 110 east is large and tinny throughout, worth 104, per fm. The lode in the 110 east is large and kindly. The stopes, in the bottom of the 100, are looking well for tin, worth 304, per fm.—stoping, 22, per fm.; the pitch set at 1s. tribute, in the bottom of this level, is still looking excellent—men getting fair wages at their tribute. Chapple's lode is now yielding good work for tin; on the w

glad to say that our prospects continue good.—W. PAUL: Oct. 12.

TRELEIGH CONSOLS.—In the 100 fm., east of Christoe, the lode is split into several branches, producing stones of ore of not much yalue; the 100, west of ditto, is driving on a part of the cross-course, expecting soon to cut the lode. In the 90, west of ditto, the lode is 1 ft. wide, very little mineral, expect to hole in a day or two; the winze, below the 90 east, is holed, stoping the back at 3s. tribute; Garden's shaft, below the 90, east of loded, stoping the back at 3s. tribute; Garden's shaft, below the 90, is sinking in the country; in the 90, east of Garden's, the lode is 1 ft. wide, not much ore; this will be holed in a day or two to the above; in the 90, west of ditto, the lode is 3 ft. wide, worth 24, per fm. In the 70, west of Good Fortune, the lode is 3 ft. wide, producing some good ore, looking more promising. In the 60, west of Symons's, the lode is 2 ft. wide, worth about 50, per fm. In the 50 west, on north lode, the lode is 15 in. wide, much improved, worth 22 per fm. In the 44, west of Symons's, the lode is 2 ft. wide, producing stones of ore. The west shaft is sinking in the country.—William Symons: Oct. 10.

TREWALLACK.—In the 30 fm. level north the lode is 4 ft. wide, composed

mons's, the lode is 2 ft. wide, rather improved in appearance, without mineral. In the adit, west of ditto, the lode is 2 ft. wide, producing stones of ore. The west shaft is sinking in the country.—WILLIAM SYMONS: Oct. 10.

TREWALLACK.—In the 30 fm. level north the lode is 4 ft. wide, composed of spar, flookan, prian, with lead scattered through the lode—very promising; the hard capel has deserted, and a substitute of spar in its place, and I hope the former will never come back; the ground is much softer; last price 51. per fm., set to them yesterday for 35s. per fm. In the 30 south the lode is 4 ft. wide, composed of spar and flookan, sprigged with lead; the walls of the lode very congenial for lead, carrying mundic 41so. In the 20 north the lode is 2 ft. wide, with prian, flookan, and lead; this end is pretty much improved in its character since my last visit; in the 20 south the lode is 3 ft. wide, with flookan, mundic, spar, and sprigged with lead; this end is 2 fms. north of Edward's shaft, hope to complete it this month, and draw the work from the 30 fm. level to Edward's shaft. In the adit endosuth the lode is 3 ft. wide, spar, with a harder branch of prian, flookan, gossan, with lead scattered through it; there is everything promising in this end, and all you can desire, but more lead. Six men are cutting a plat at the engine-shaft, at the 30 fm. level. We cannot boast of a large quantity of lead, but I can say I never saw every level looking so promising at one time, since my visiting the mine; and I do not hesitate to say, that the mine is looking very promising, and particularly the adit end, and the 30 fm. level north and south.—John Lean: Oct. 10.—[We gave a report of the meeting in our last Journal, and now farnish the managing agent's report, which would have been presented at that time, but for the unavoidable absence of Capt. Lean, as stated by the chairman.—Since the above reached us, we learn that a considerable improvement has taken place in the 32 end going south—a leader of lead, 6 in. b

THOMAS TREVENEN; ROBERT WILLIAMS: Oct. 9.

WEST WHEAL JEWEL.—In the 115 fm. level east, on Wheal Jewel lode, the lode is 18 in. wide, with more ore in it than we have seen for some weeks past. In the 100 east, on the same lode, the lode is 2½ ft. wide, worth 6i. per fm. In the 25 west, on the same lode, the lode is 15 in. wide, worth 34 per fm. In the 12 fm. level, west of Quarry shaft, or Tolearne tin lode, the lode is 2½ ft. wide, worth 35i. per fm. The winzes, in the bottom of the 12 fm. level, on the same lode, east of Quarry shaft, are worth 12i. per fm. The winze in the bottom of the deep adit, west of Quarry shaft, on the same lode, the lode is worth 15i. per fm. In the winze, in the bottom of the deep adit, west of Quarry shaft, on the same lode, the lode is worth 3i. per fm.—R. Johns: Oct. 12.

WHEAL FORTIUM CONSOLS—Since my leat we have sunk on No. 2.

WHEAL FORTUNE CONSOLS.—Since my last we have sunk on No. 2 lode; I have much pleasure in being able to state, that it has much improved in depth; the lode is about 3 ft. wide, producing good stones of tin. We are bringing up a lobby to intersect the caunter lodes, and, from present appearances, I have no doubt we shall have a good mine.—J. Chynoweth; Oct. 14.

bringing up a lobby to intersect the caunter lodes, and, from present appearances, I have no doubt we shall have a good mine,—J. Chixnoweth; Oct. 14.

WHEAL LOUISA.—The engine-shaft is down 17 fins. 3 ft.; the ground through which we are sinking is still improving in depth, which indications are very encouraging, knowing that we are approaching the lode. The ground at the south part of the mine, through which we are driving to cut Wheal Arvose lode, is looking well, with strong indications of copper ore.—J. Chixnoweth.

WHEAL REYNARD.—A grant of a very promising sett has been obtained from Capt. Wm. Pode, of Slade Hall, near Flympton, Devon. The sett at present is about 500 fins. on course of the lodes, and 300 fins. wide, with a promise of more ground to the east, which addition will be giving importance, and accelerate the workings which have been commenced with some vigour. The report of Capt. Williams gives every encouragement:—I have carefully examined Wheal Reynard, and beg to hand you a sketch with my report. There are eight lodes laid open at surface by costeaning, the whole in a base line of 60 fins, north and south; these lodes run nearly parallel to each other—four of which hold out the most fintering appearances. No. 2 has been sunk on about 5 fms, and driven about 10 fms. on its course; the lode is from 3 to 4 ft. wide, producing stones of tin, at least worth 40 per cent. of tin ore, and the remainder of the lode saving work. Nos. 7 and 8 are copper lodes, of large size producing good stones of copper at the surface. Nos. 1, 3, 4, 5, and 6, are in

character tin lodes, of large size, at least 3 ft. wide, producing good specimens of tin at surface; the whole of the lodes shove referred to have the most flattering appearance I ever saw; they are composed of good gossan, and all the characteristics that would constitute good lodes, at no great depth. The strata is that of killas, the most congenial to copper and tin, and not more than 150 fms. from granute. No 9 is a large cross-course, intersecting all these lodes to the east of north and west of south; and from my observations in other mining districts, I believe great deposits of copper and tin will be found at the junction of the lode to the cross-course at no great depth. I recommend your taking up an adit, which will intersect all the lodes at the depth of about 15 ms. in driving 100 fms., which will cost at most 150L—R. WILLIAMS.

WHEAL TRELAWNEY—The sumpmen are progressing very satisfactorily

ms. in driving 100 fms., which will cost at most 1902.—H. WILLIAMS.

WHEAL TRELAWNEY.—The sumpmen are progressing very satisfactorily with the 42 cross-cut. The lode in the 32 fm. level, north of the shaft, is 33 ft. wide, and worth 26t. per fm.; in the same level south it is 15 in. wide, and worth 6t. per fm. The lode in the 22 fm. level north is 4 ft. wide, and worth 16t, per fm; the winze, under the 12 fm. level north, is holed to the 22 fm. level; the lode in the 12 fm. level north is 3 ft. wide, and worth 18t. per fm., and our stopes are also looking well.—P. CLYMO, jun.

and our stopes are also looking well.—P. CLYMO, jun.
WHEAL TREHANE.—Great inconvenience has been felt here for the want WHEAL TREHANE.—Great inconvenience has been felt here for the want of water to dress the cros; but a reservoir for rain water having now been made, it is hoped this difficulty will shortly be overcome. The whim is crected, and good work is now hauling to surface, and the lode throughout the mine looking well. It is calculated that 7 or 8 tons of ore are dressed and ready for sale, and about the same quantity at surface undressed. The lode at the 20 fm. level going south, and which is near the boundary, is still rich; and there is also a good course of ore in the end going north. The lode at the 10 is not sufficiently developed to show what the back will be. With regard to the east and west lode, it was first met with in sinking the shaft on the south side, about 2 fms. from surface; it underlayed north, and came into the shaft 4 ft., when the underlay changed and passed out on the south side of the shaft, at about 8 fms. in depth. This lode never reached the north side of the shaft, nor was the south wall seen in the shaft. A cross-cut has been driven south to intersect this lode under the slide, but it has not yet been seen, although 10 or 12 fms. have been driven; it is, therefore, supposed to be either on the north side of the shaft, or the shaft, or still beyond the cross-cut south. They have driven on the course of Trelawney lode north, through the slide—but as the latter was passed near the shaft, it must have passed over the east and west lode; if it be in this direction it cannot be intersected without sinking and cross-cutting under the slide.

### FOREIGN MINES.

ASTURIAN MINES. - Advices have been received within the past few days from the agents of the company, which are of a highly satisfactory na ture, and of which the following are extracts: - Sept. 14 .- I am more anxious to get this first furnace in blast than I have ever been to get a furnace in blast in my life, because I feel assured I shall get such results as will not only sa tisfy you of the immense value of this concern, but astonish the unbelieving: I make no doubt of the shares going to a premium. Sept. 18 .- I tried the blast engine on Saturday last with two of the boilers; it works perfectly, and is an

excellent engine in all its parts, and one which will do good service to the company—it is highly creditable to Messrs. Graham, the contractors.

Oct. 7.—The equinoxial gales have brought us some bad weather, which has caused some little slackness this last fortnight; I am, however, still getting on well—the furnace is up to the last ring—the foundations for the lifting apparatus nearly up to height—the hot air stoves done: in short, I most fully expect to be ready to go into blast by the end of November.

paratus nearly up to height—the hot air stoves done: in short, I most fully expect to be ready to go into blast by the end of November.

Cinnabar Mine.—The following is an extract of report, dated 7th Oct.:— I am most happy to tell you, that the Eugenia Cinnabar Mine has taken a most fortunate turn; by the account of stock taken, which I send by this same post, you will see that you have already extracted 5584 quintals, or about 258 tons of mineral; and I should say, from the inspection I made of the mine, that there is about three times the quantity extracted to be got from the present workings,—so that, although the ontlay in that mine has been very considerable, compared to the work done, the result is still most excellent, as you will see by the following rough calculation. M. Paillette (the French mineralegist), who assisted in taking the samples, estimates the produce of the mineral extracted at about 10 per cent., which would put its value at the present price of mercury (viz., 1494 rs., 13 per quintal) at about 8000l. As, however, the largest portion of the stock is ore but very lately extracted, and "through and through," as it came out of the mine, I do not consider it safe to estimate it at more than about 6 per cent. in mercury, as a mean which puts the value of the extracted at about 5000l.; and I think you may rely on a product of from 12 to 15,000l. from the mine, even if its present favourable features should not continue, which, however, I cannot expect will be the case, but the contrary. The mine is looking so well, and has so recently taken a turn, which has made it not only the most yaluable in the province, but even more valuable than all the others put together. the others put together.

ST. JOHN DEL REY MINES .- Morro Velho, July 28 .- Heads working during 28 days, 68. The supply of ore has only been middling, and the quantity of sand collected from the strakes indicates only a middling produce. Capt. Trelear says, his people are doing duty; but that he wants more hands. Forty of his beeres are employed upon dead works; in the mine there is nothing new. The sinking in the Bahu is proceeding very well at present, with a heavy force. The mechanics have nearly completed everything necessary for repairing one-half of the Lyon stamps.

GOLD MINES OF RUSSIA .- We learn that the produce of the Russian gold Gold Mines of Russia.—We learn that the produce of the Russian gold mines, for the first six months of 1846, has been—private account, 95 poods 36 lbs.; Government account, 69 poods 35 lbs.—165 poods 31 lbs. Each pood being equal to 40 lbs. Russian, or 36 lbs. English, and, therefore, giving 5948 lbs., being at the Mint price equal to about 370,0000. We have not the return for the corresponding part of 1845; but for the whole of that year the produce was equal to 3,160,0000., so that the last six months exhibit a great proportionate decline compared with last year, or indeed with any recent year. The actual quantity produced is always considerable larger than that given in the returns; for, as there is a heavy tax payable to the Government on that produced on private account, smuggling takes place to a great extent.

# [FROM CORRESPONDENTS.]

CREEGBRAWS.—The improvement within the last few months has been very considerable, and, up to the present time, she is gradually improving.

considerane, and, up to the present time, she is gradually improving.

DEVON AND CORETNEY CONSOLS,—They are progressing very rapidly with
the engine-shaft, in a beautiful killas. The deep adit is driving in good ground
on course of the lode, having ore 1 ft. wide, with peach, &c., and looking extremely well. On the north lode, the shaft is down about 11 fms; the lode is
about 6 ft. wide, with beautiful stones of ore. The shallow adit, on the same
lode is being driven in most promising ground, with strings of copper throughout.

EXMODE ELIZA.—The world 'dame have head confined to

lode is being driven in most promising ground, with strings of copper throughout. Exmoor Eliza.—The work done here has been confined to costeaning on the south lode, or, I presume, junction of lodes, being 27 ft. wide—the sinkling a shaft on this, and the driving a cross-cut to mtersect it further east, where the lode presented the same appearances as in the shaft, being very large, with little underlay, composed of gossan, impregnated with ore; in driving this cross-cut some branches of copper, which will at a greater depth fall into the lode, were intersected; in sinking the shaft we found very fine stones of copper, producing 14½ to 19½ per cent. The late captain, without consulting the advanturers, made a whim round—this was useless, as we determined on drawing the stuff by the water-wheel; but, in doing this, he discovered another lode, 15 ft. wide, containing gossan and copper; this lode is 30 ft. from the south lode. A water-wheel, pumps, and other machinery, have been purchased, with about 500 ft. of timber; the materials are paid for and shipped, yet there is a balence in favour of adventurers of 371.—no arrears of call. The sett is 2500 acres; water power abundant at all sessons.

Great Rough Tork Consols.—Another extraordinary lode has been cut,

Great Rough Torn Cossors.—Another extraordinary lode has been cut, liscovered in this sett, which is spoken of as equal, if not surpassing, the first discovery. In a few posts the fact will be confirmed, on its being more willy developed.

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fully developed.

LAMEAST CONSOLIDATED MINES.—An extensive sett, situated between Lameeston and Camelford, has been granted to Capt. R. Moore and Mr. R. Rowe, for raising manganese, and such ores, &c., as may be found within the sett. Captain Moore appears to be well conversant with coloured earths or ochres; for he has not only shown that the presence of manganese can be readily detected by the experienced eye of practical men, but that Vandyke brown, umber, &c., is to be met with, where enterprising persons display their judgment. These others are met with in abundance—samples of which have been sent to colour merchants of Bristol, and an offer of 181. per ton received for any quantity that can be raised—from whence it is estimated that upwards of 300l. worth can be extracted weekly; about 9 tons is now in course of dressing for the market. A copper lode has also been discovered in the sett, but little can be said of its value until more fully developed.

South Maria.—The purser (Mr. J. Seccombe) under date. Tayistock, Oct.

value until more fully developed.

South Maria.—The purser (Mr. J. Seccombe) under date, Tavistock, Octob, writes—"It is with pleasure I inform you, that our machinery is completed, and works in good style; the whole appears to give credit to the contractors, and the present case with which the wheel pumps the water, proves itself to be of great power, and will answer every purpose, if not more than was originally assigned it. A general meeting of adventurers will be held at the counthouse, on Tuesday, the 20 inst., to examine the machinery, and other works; then to adjourn to the Cornish Arms, Gannis Lake, to consider future operations, and transact other business relative to the affairs of the said mine. Those in arrear with their cost will have their individual cases brought before the meeting, to be dealt with as it may think fit. The auditors will meet at the counthouse, at 10 o'clock, to audit the accounts."

KIRCUDBRIGHTSHIRE MINING COMPANY.

KIRCUDBRIGHTSHIRE MINING COMPANY.

A meeting of adventurers was held at the offices of the company, Birchinlane, on Tuesday, 13th inst.

The Chairman briefly remarked upon the pleasing prospects of the company, and referred the shareholders to the various correspondence which had taken place, relative to their affairs; he called attention to the captain's report, which he considered of a highly encouraging character.

Mr. T. Hacket (the secretary) presented a detailed statement of accounts, showing a balance in favour of the mine, at their last meeting, of 1904 4s. 2d.; and that the cost for September were 2241. 12s. 7d.: leaving a balance against the company of 31t. 8s. 5d.; to meet which, and the further operations of the mine, a call of 1t per share was made.—[A general satisfaction appeared to prevail amongst the shareholders, as to the present management of their affairs; but as much of the proceedings contained matters of a more private nature, we refrain from publishing that which might effect their present prospects.]

## STRAY PARK AND CAMBORNE VEAN MINING COMPANY.

A general meeting of adventurers was held in the account-house, on the mine, on Friday, the 9th of October, when the following statement of accounts were presented by W. Vawdrey, purser and manager:—

Oct. 9—Dividend of 1l. per sh. £1000 0 0 | Sept. 1.—Balance in hand... £1347 16 2
Current cost in Sept. and Oct. — Oct. 1.—Copper ore ....... 2448 18 5
Av. monthly gettings of men in July & Aug.—Tutworkmen, 2l. 14s. 6d.; tribute, 2l. 2s. 6d

The accounts, for the months of July and Angust, showing a balance in favour of adventurers of 13471. 16s. 2d., having been examined, were allowed. A dividend of 11. per share was made, to be paid by the purser within seven

A dividend of 1L per share was made, to be paid by the purser within seven days from this date.

The following report from Capts. R. Eustice and E. Ralph was then read:—
In the castern rise, above the back of the 70 fm. level, on the south lode, the lode is 1½ ft. wide, yielding 2 tons of ore to a fm. In the western rise, above the back of the 70 fm. level, on the south lode, the lode is 2 ft. wide, yielding 4 tons of ore to a fm. In the 80 end, driving west, on the south lode, the lode is 2 ft. wide, yielding 2 tons of ore to a fm. In the 80 end, driving west, on the south lode, the lode is 2 ft. wide, yielding 2 tons of ore to a fm. In the 90 end, driving west, on the south lode, the lode is 2 ft. wide, yielding 2 tons. In the 90 end, driving west, on the south lode, the lode is 2 ft. wide, yielding 2 tons. In the 100 end, driving west, on the south lode, the lode is 2 ft. wide, yielding 2 tons of ore to a fm. In the winze, sinking below the 90 fm. level, on the south lode, the lode is 3 ft. wide, yielding 5 tons of ore to a fm. In the winze, sinking below the 100 fm. level, on the south lode, the lode is 3 ft. wide, yielding 5 tons of ore to a fm. In the winze, sinking below the 120 fm, level, on the south lode, the lode is 1½ ft. wide, yielding 2 tons of ore to a fm. In the winze, sinking below the 120 fm, level, on the south lode, the lode is 1½ ft. wide, yielding 2 tons of ore to a fm. In the 150 end, driving west, on the south lode, the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the 150 end, driving east, on the south lode, the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the 150 end, driving east, on the south lode, the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the 150 end, driving east, on the south lode, the lode is 1 ft. wide, yielding 2 tons of ore to a fm. In the south lode, the lode is 1 ft. Wide, yielding 2 tons of ore to a fm. In the 150 end, driving west, on the south lode, the lode is 1 ft. the lode is 1½ ft. wide, yielding 8 tons of ore to a fm. In the winze, sinking below the 120 fm. level, on the south lode, the lode is 1½ ft. wide, yielding 1 ton of ore to a fm. In the 150 end, driving west, on the south lode, the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the 150 end, driving east, on the south lode, the lode is 8 ft. wide, yielding 4 tens of ore to a fm. In the 180 end, driving east, the lode continues split into small veins, producing stones of ore. The tribute ground is looking very well, and our next sampling will exceed 500 tons. Since our last report, the communication at the 140 fm. level has been made between Stray Park Old Mine, and Camborne Vean engine-shaft; and we are now drawing up the pit-work from Stray Park engine-shaft, which, together with the 60 inch cylinder steam-engine, will be ready for sale before the expiration of the next two months. By making the above communication at the 140 fm. level, we have discovered that Stray Park main lode is gone off to the north of all the former workings in Camborne Vean, and consequently it is in perfectly whole ground throughout the chief part of our sett; this discovery throws great light on our northern ground, and in our estimation renders the mine of greater value than before. We shall commence driving on this lode at the 12 fm. level forthwith, which is the most convenient depth for the present discharge of the stuff, and we shall lose no time in exporing our north ground, which holds out to us such a fair chance of speedy remuneration.

### WHEAL SETON MINING COMPANY.

A meeting of adventurers was held at the account-house, on Tuesday, the 18th inst., when the accounts, having been presented and examined, were allowed: it was resolved, that a dividend of 15t. per share be made, and paid to the adventurers forthwith; and that the balance of 1966t. 15s. 4d., in favour of the adventurers, be carried to the credit of the next account.

To amount of costs for July £ 890 15
To amount of costs for July £ 890 15
July 9"By amount of copper ove sold £ 4259 12
Aug. 6 1422 6
Bleude sold in December last 50 11 - 5331 13 2 

WHEAL HOPE LEAD MINING COMPANY.

A meeting of adventurers was held at the offices of the company, Old Broadstreet, on Friday, the 1st of October.

WILLIAM ABBOTT, Esq., in the chair.

The CHAIRMAN briefly stated the object of the meeting, being that of suspending further operations, and urged the necessity of winding up the accounts of the company with as little delay as possible, by the immediate sale of all available effects, as well as the payments of back calls. Although the lode held out much promise (which was confirmed by Capt. Bray who was present), they were compelled in a measure to this resource, by the stopping of their neighbour, Wheal Catherine—the water-wheel having been erected conjointly with that company. He (the chairman), much regretted the circumstance, as he had entertained a hope of their ultimate success; and he would suggest, for the consideration of the shareholders in each company, the propriety of those who felt inclined to continue the adventure, to amalgamate their interests, and

the consideration of the shareholders in each company, the propriety of those who felt inclined to continue the adventure, to amalgamate their interests, and unite in working the two sets under one company.

The SECRETARY read a statement of accounts, showing cost of mine from 23d October, 1844, to present day, 1957. 14s.; and the amount received on calls, 889/s; calls unpaid, 135.—1024/s; leaving the mine in debt, 168/. 14s.—The accounts were allowed and passed, and Mr. T. P. Thomas requested to write to all the defaulters, giving 14 days for payments—in default of which, Capt. Bray to take legal proceedings for their recovery. The operations of the mine are to be suspended, and Capt. Bray is to meet Capt. J. Middleton, to take such steps in reference to the disposal of the materials, as they shall deem most eligible, for closing up the affairs of this mine.

BUDNICK CONSOLS.—At a meeting of adventurers, held on the mine, on the 5th inst., the accounts were examined and passed; from which it appeared, that the balance from June was 962 2s. 3d.; cost for July and August, 1333. 10s. 2d.—1429l. 12s. 5d.—By tin sold, 1909l. 11s. 2d.; carriage of tin, 20d. 4s. 11d; on account of call, 50L—1379l. 16s. 1d.—leaving a balance of 49l. 16s. 4d.; from which deduct arrears of call, due 40l.—shows a balance against the mine 9l. 16s. 4d. which deduct arrears of call, due 40.—shows a balance against the mme 9.1. 10s. 4d.—CONDURROW.—At a two-monthly meeting, beld on the mine, on the 13th inst, the accounts were examined and passed; 1 om which it appeared, that the cost, for Aug. and Sept., was 530. 4s. 5d.; merchants bills, 142. 0s. 3d.; lords' dues, 32. 14s. 11d.; balance due to purser end of July, 596. 19s. 10d.—1301. 19s. 10s.—Credit by ores sold, 634. 19s. 6d.; call of 5f. per share, 640.; sundries, 4I. 5s. 0d.—1299I. 4s. 6d.—showing a balance against the mine of 2l. 14s. 11d. The next account meeting was fixed for Tuesday, the 8th Dec. Consolidated Mines.—At a meeting of adventurers, held on the mine, on the 18th ult., a statement of accounts was passed—from which it appeared, that the balance from last account was 1646. 5a. 4d.; copper ores wid, 7579.13a. 7d. tin, 3781. 18a 931.—96011.17a. 8d. Cost for July and Aug. . tutwork, 41801.18a. 10d.; tributers, 16461. 9a. 10d.; merchants' bills, 25131.13a. 5d.—83411. 2a. 1d.—leaving a balance in hand of 12601.15a. 7d.

leaving a balance in hand of 1260l. 15a, 7d.

Least Caradon.—A meeting of adventurers was held at Webb's Hotel, Liskeard, on Monday, the 12th inst.—Rtenard Forster, Eaq., in the chair.—The statement of the accounts was presented, showing a balance of 19l in the purser's hands in favour of the company. Highly favourable statements were mode by Capts. Puckey, Treleaze, and Whitford, in which they appeared unanimous as to the kindly and promising appearance of the lode; and the South Caradon main lode being now prosecuted under the most encouraging prospects, it was strongly recommended to commence more vigorous measures.—Capt. J. CLYMO (the manager) stated, that as the lode was also good in the back of the level, it was not improbable but that many thousand pounds worth of ore might be discovered in sinking from the surface, such having been the case in the adjoining mine (South Caradon). In the winze sunk near the present end, in the bottom of the level, a fine orey lode presents itself. The accounts were examined and allowed; a call of 1l, per share was made for the further prosecution of the mine; and an engine-shaft ordered to be immediately commenced on course of the lode over the winze recently sunk.

Exmoon Wheal Eliza.—At a meeting of adventurers, held at Tayistock,

of the mine; and an engine-shaft ordered to be immediately commenced or course of the lode over the winze recently sunk.

Exmoon Wheal Eliza.—At a meeting of adventurers, held at Tavistock, of the 18th Oct.—present Messrs, Bullivant, Sleman, Square, Luscombe, Dunn, Bullivant, Jun., Flemank, Philips, Baron, Horswill, Wilkes, Snell, Palmer, Chaut, Merrefield, and Job.—J. L. Colley, Esq., in the chair,—the accounts having been audited, and found to present a balance in favour of the adventurers of 237l., it was resolved that they be passed. The following report was read to the meeting from Capt. J. Prior:—I beg to hand you my report of the proceedings, with regard to work at this mine. Since I came, I first took a view of the ground at the surface, in order to ascertain whether or not it would be advisable, or advantageous, to sink a new engine-shaft, or to continue the old one—as far as I can at present judge, the old shaft must be resumed as soon as we can make it convenient. We are continuing to drive the cross-cut north at the adit level, to prove the north lode, which, I expect, 2 or 3 fathoms from the present end will do. There has been nothing done in the shaft since the meeting at South Molton, except I put the pump in order, and tried the water, which, I think, we can manange; but it is a fueless expenditure of money, to attempt to sink, until we have a shed over the shaft, so as to enable the men to stand at the tackle, at all times, and weather. I have levelled the ground, to ascertain what levels can be had from the river to the wheel-pit, a distance of 150 fms.; this I have let at 1s. 10d. per fm.—the distance from the wheel-pit to where the water can be taken to go over a 25 ft. wheel, is about 600 fms. It will be necessary for me to know if 25 ft. is to be the height of the wheel-to be put in.—It was resolved, that the report be entered into the Cost-Book; and that the captain be instructed to make the wheel 25 ft. in diameter, and as the axle admits.

EHABROWBARROW COSOUS.—A meeting of adventurers,

As the axie admits.

\*\*HARROWRARROW CONSOLS.—A meeting of adventurers, convened for Friday, the 9th inst., was held at Plymouth, John Peter, Esq., in the chair, when a resolution to the following effect was proposed and passed:—"That the meeting be adjourned to the 9th of Jan., 1847, or such other day as the purser may think best; such meeting to be held at Mr. Carne's, Bedford-street, Plymouth."

Wheal Basser.—At a meeting of adventurers, held on the mine, on the 5th inst., the accounts were allowed and passed, from which it appeared that the cost for July and August, was 15321. 12s. 1d.,; merchants bills, 5851. 19s. 3d.—together 21181. 11s. 4d.—Copper ores sold, 25131. 17s. 10d., showing profit of 3951. 6s. 6d., to which add balance of last account, 12031. 19s. 8d.—16598. 6s. 2d. from which deduct dividend of 5l. per share, 6401.—leaves balance at banker's 10191 fs. 2d. 10197, 6s. 2d.

10191. 6s. 2d.

XWHEAL FRANCO.—The periodical two-monthly meeting of the adventurers, was held at the mine, on Wednesday last, the 14th inst., when a report of the finances was made by the managing committee, and also by the captain as to the state of the mine—both reports were considered satisfactory, and ordered to be printed, and sent to the shareholders. The appearance of the mine has much altered for the better; several parts of the lode, both in the 20, and 32 fm. levels have been left standing, the levels having been driven to the north of the lode; these parts of the lode are now being laid open, and are turning out a good quantity of ore. The floors are full of ore; and from the alterations made in the dressing department, the expenses will be much lessened; preparations are also making to dress over the waste, by the use of Brunton's patent belta, lately introduced for the dressing of tin ore. The engine-shaft is down 3 fms. below the the 32; and as every thing is now in course, the sinking will go on by 9 men, without interruption. without interruption.

without interruption.

WHEAL BUCKETTS.—At a meeting of adventurers, held on the mine, on the 5th inst., the accounts were examined and passed, and the loss of 8751. 12s. 10d. ordered to be collected forthwith.—Cost for July and August, 3441. 8s.; bills, 3211. 3s.; balance from last account, 15081. 8s. 1d.—21731. 14s. 1d.—By call of 51, per share, 12801.; tin stuff sold, 18t. 1s. 3d.—12981. 1s. 3d.—showing a balance against the adventurers of 8751. 12s. 10d.—Mr. G. A. Knight, of Truro, was elected purser in the room of the late Mr. W. Gill; the agent's report was considered satisfactory, particularly respecting a new discovery at the 30 fm. level, in which the lodgs in the ends both east and west, were represented as capable of turning out 3½ to 4 tons of ore per fm., worth 7t. per ton.

MINING IN SPAIN-MR. COWARD AND CAPT. O. H. MATTHEWS " It is not well for those who live in glass houses to throw st

Sir,-I am told that there is an article gone, or going, to your Journal, in which I am torn up root and branch. The authors (for it seems there are more than one) accuse me, among other things, of not having given proofs of bad management, and a want of judgment, and that my motives will not bear investigation, &c., &c. My jurors on these points is the mining world, on whose

management, and a want of judgment, and that my motives will not bear investigation, &c., &c. My jurors on these points is the mining world, on whose dictum I am content to stand or fall, and the sooner the better. If I wait for your next Journal, a month must pass ere I can receive and answer the said promised attacks—a month is too long—I will, therefore, not wait; but will forestall a little, and, perhaps, make my defence more easy, and, I hope, vigtory more speedy and complete.

I begin with San Estevan Mine, from which Capt. O. H. Matthews has sent 55 tons of his lead ore to England at a serious cost, and when there it would not sell; he says, in his letter of the 6th of December, 1845—"That the mine is paying its monthly costs, and yielding a surplus profit equal to the large amount of capital expended." Query—How can a mine pay its cost, and yield a profit from ore that will not sell? And in your Journal of the 20th of serious prember, 1845. Capt. O. H. Matthews says—"I have now a rich doe of lead ore, as he calls it? In his report of October he states—"I have left some very rich work in sight, from which I look for regular returns?" I say, Mr. Editor, that if he had this rich lead ground in sight, he ought to have raised and dressed therefrom LARGE AND SALEABLE parcels of ore, which would have proved his judgment. Capt. O. H. M., in his letter to me of the 8th May, states—"I have a doe in the adit upwards of 3 ft. wide, and of good promise? Query—Is it good mining to lose 12 ft. of level in an adit end? and query—Would a competent miner call common clay a lead lode, and of good promise? Query—Is it competent miner to sink, close timber, and divide an engine-shaft, before you know whether you have a lode, or how a lode is running or underlaying?

Query—Would a practical miner drive in an unknown country five cross-cuts, from a shaft only 26 fathoms from surface?

Chery—Is it competent mining to sink, close timor, and arrive an engage shaft, before you know whether you have a lode, or how a lode is running or underlaying?

Query—Would a practical miner drive in an unknown country five crosscuts, from a shaft only 26 fathoms from surface?

Query—Is it mining judgment to sink a shaft 12 fms, in a lime rock, when there is no lode near it, nor the possibility of a level reaching it?

Capt. O. H. M. refers to his working plans and sections to prove his competency as a miner. Now, if he was a competent miner, he would have known that such sections and plans clearly prove that the work done is altogether unminerlike—on this point I am ready to meet him.

Capt. O. H. M. broke the greater part of his ground, and took away the greater part of his ore, on owners. Account, and thereby paying at least double price for the former, and rendering worthless the latter. Query—is this good mining?—Is my opiniom, it is not good mining. The only safe—I think the only safe—course, which an agent can, or ought to, pursue, to secure dispatch, comony, and general satisfaction, is TUTWONK AND TRIBUTE; to do that work, I had the pleasure of handing over to him 25 as good miners as Cornwall could produce. Had any one of them been the manager, instead of Capt. O. H. Matthows, they would have gained a large profit, whereas THE ALL-COMPEKEMY MINER HAS LOST 40001. I shall hereafter say something more on San Estevan Mine. If I can obtain a sight of the general costs, I will place each item of expenditure under separate headings, and hand them to my jurors, through the Mining Journal.

I now ask, if the competent miner showed judgment, by giving the tailor at Coloner 50001, and agreeing to one-fifteenth of the produce, &c., &c., for and in

expenditure under separate headings, and hand them to my jurors, through the Mining Journal.

I now ask, if the competent miner showed judgment, by giving the tailor at Colonga 5000l, and agreeing to one-fifteenth of the produce, &c., &c., for and in a concern in which there was no Lodde? Query—Would a competent miner call a common stratification a promising copper lode, 80 ft. big or wide; he speaks thus of ir—"I traversed over the back of a large and most extraordinary looking Lodge, composed of gossan, quartz, mica, talc, flooksan, iron, and arsenical pyrites, yielding rich specimens of yellow and black ones, with native copper."—Vide his report in the Mining Journal, August 10, 1844; there I am told the loss has been near 2000l. I will not at present offer any farther proofs as to a want of judgment in working, &c., &c., of lead, or copper mines. I now go to the Cinnadar Mine—here Capt. O. H. Matthews declared, in March, 1845, that he has ore in sight worth 4000t; since which he has been working, any, 15 months, with a large pare and a heavy cost, and the whole or resect to only valued at 2000l, which MAY PROVE TO BE 115K MIS. EAD, ORS, WALLEY

Query-Would not a Cornish buddle boy have been a better

Gijon, Asturias, Spain, Sept. 28.

Sun,—I should not again have troubled you, or the public, but that Mr. Stream letter demands a word or two of explanation from me. Why he supposes "the chagrined and disappointed speculator" to mean him, is best known to himself; I can only say, I never for a moment thought that he was the author of the latter signed "Fair Play;" that epistle, in my opinion, bears sufficient internal evidence to the contrary. I carefully avoided personality in my letter; I did not say "Thou are the man!" and it would have been time enough for Mr. Sleman to have taken it to himself, had he been the only speculator in Tavistock, or sole proprietor of Wheal Eliza. As to assassination, he seems to hold very singular notions on the subject; I never knew before that it was wrong to "do good by stealth." But the Exmoor bubble—siy, there's the rub—and for this unguarded expression I feel it necessary to make an apology, after the very volumbnous evidence Mr. S. has brought forward to prove the contrary. Observe the good doctor's delicacy, in changing the name from Marie to Eliza, lest any unfortunate should be duped into the purchase of a share, by the talismanic influence of the former; but, "What's in a name?" after the 150 Cornish captains and the 68 Devonshire ditte (Mr. Sleman will forgive me, if my arithmetic is wrong, for I have not his letter before me), and the dozen and a half of Mr. Hitchins's agents, have pronounced Eliza. "all that fancy painted her "—by-the-bye, he has omitted to give the world the opinion of the "mining king" as well. I shall conclude by asking the doctor one question—Does he not knew Sme one who has resided at home, to whom the simile of Tantalus will bear a closer resemblance, than to—

only appear as advertisements.]

TRELEIGH MINING COMPANY—DIVIDEND.

Sun,—In your report of the Treleigh meeting in the last Mining Journal, I observe you have falled into a very important error, relative to the answer given by the chairman respecting the payment of a dividend. My question to the chairman was, after considerable discussion had taken place in reference to this subject (the accounts showing a balance in hand of 1570t)—can the directors say when the proprietors may expect a dividend, supposing the returns to continue as favourable as they have been for the past few months? To this the directors could not give any assurance. I then asked the chairman, if they would give an assurance to the proprietors that they would make a dividend as soon as they had a balance in hand of 2000?.—To this proposition the directors fully consented. Whereas your report makes the chairman to say, that he considered there should be in the hands of the company a surplus of 1500?, or 2000? over and above the amount required for the dividend. Trust, Mr. Editor, that you will see the importance of correcting an error, that I baye no doubt has inadvertently crept into your report, by inserting this letter. T. SMITH.

Thregmorton-street, Oct. 14.

Inadvertently crapt into your report, by inserting this letter. T. Smith.

Threymorton-street, Oct. 14.

MINE ACCIDENTS.

Wheal Concord.—I. Irwen, who was employed in the 10 fm. level, having finished his work, was in the act of coming up in the kibble, when the rope broke, and the kibble struck him on the head, eausing instant death; he has left a wife and five children; the son was working in the same place at it into.

Hounds Green Colliery.—A boy, employed here, was literally cut in two, in consequence of his own wilfulness; he would persist in riding on a flat chain, which wound round a drum-barrel, jumping off when he was carried near the drum; the engineer drove him away; but during the man's absence, he returned, got on the chain, and, neglecting to jump off in time, was carried round the drum; his body was almost severed into two parts.

Lord Bellaw n's Colliery, Wishow.—W. Lindsay was killed while working.

Wigan.—P. Carroll was killed, by lalling down a colliery in Platt-lane.

Walker Iron-Works—Dreadful Explosion.—A serious and fatal accident occurred at the Iron-Works of Mesers. Losh, Wilson, and Bell, on Monday last, by which three persons have lost their lives. It appears to have arisen from an accumulation of foul air in the reservoir, from which the pipes lead to the blast machinery; some derangement having been discovered, the men were endeavouring to regulate it, and in the act of plagging a hole in one of the pipes, when the explosion took place. One man was killed on the spot; and another, man and a boy were found at the bottom of a staircase, leading to the privy, unflocated by inhaling the carbonic acid which had escaped after the explosion of free-damp took place here, by which three men lost their lives; the property is owned by Mesers. Hudson and Co., of Leeds.

Riese Colliery.—A miler, named Patigled, was killed by a fall of coal.

South Carveton.—J. Cock was killed by falling from the 90 to 100 fm. level.

Speth Betts us Colliery, Cataleye-lease End, was Wakefield.—An explosion of fr

There are now seven collieries being opened in the Rhendda valley, four of which have struck into the coal... There are also three other collieries about to be opened in the Rhendda-fach valley, where the seams are of first-rate quality—the same as Powell's Duffryn steamercoal, and the quantity contained in them is almost inex haustible. When these works come into fallsetion, employment will be given to many hundreds of additional hands; and they will prove a great source of wealth to Pontypried and its neighbourhood.—Merthyr Guardian.

great source of wealth to Pontypridd and its neighbourhood.—Merthyr Guardian.

FORCE OF IMAGENATION.—Mr. De la Haye, a British subject, of French extraction, proposes the formation of milwings under the sea, between India, China, and London.—Monaiouthshire, Merlin.—[Our clever contemporary must have been dreaming since reading, in the Mining Journal of the 26th Sept., a description of Mr. De la Haye's proposition, for the construction of a submarine railway from Dover to Calais—in which article, Mr. De la Haye merely expresses his belief, that, by-and-bye, a daily communication will be established between China, India, and London, by means of the electric telegraph !—not by railways.]

China, India, and London, by means of the electric telegraph.—not by railways.

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China, India, and London, by means of the electric telegraph.—not by railways.

The Distriction of Criff Engineers, we care a short description to make experiments with cannon. The effect already promote the head of institution of Criff Engineers, we care a short description that the head of institution of Criff Engineers, we care a short description that the head of institution of Criff Engineers, we care a short description that the head of institution of Criff Engineers continued to the experiments with these attributed by the English journals to decline; and a sudden and unlooked-for depression occurred in the share of the electric telegraph.—In the engineers of the electric telegraph is the continued of the electric telegraph is the continued of the electric telegraph is the e

We have received the South Australian Gazette of the 16th May, which gives a information of a later date than hitherto published—it is the news for the sek then ended: we quote the particulars as they appear in our contemporary, showing what important progress mining is making in that distant colony, and the inferest attached thereto:

The accounts from the Days The

and the inferest attached thereto:—

The accounts from the Burn Burn are more favourable than ever; and it is expecte
that the five yearhor, during the week, will permit the carriage of the ores to Pot
Addedde to proceed as usual. Fits stated that there are about 1000 tons at the mine ready
and from the great attention that has been recently paid to the workings, as well as to the
security of the shafts and guileries an immune quantity of the shafts are could be go
out whenever sufficient opportunities for sliphent occur. The Trincest Royal Mines are

Addelaide to proceed as usua.

And from the great attention that has been recently paid to the workings, as well acto the security of the shafts and gulleries, an immense quantity of the shafts and gulleries, an immense quantity of the shafts and gulleries, an immense quantity of the shafts and gulleries are income turning out fine over in considerable abundance.

Of the Kapunda and Montacute we have only to report that they are proceeding steadily as usual—the ores in both improving in quality. The Mery While is loading Kapunda erres for Swansea girect.

The Moant Barker Mines are daily improving; and often have been discovered in various portions of the survey, at a cheinderable distance from the present workings. "The South Australian Company's miners are driving shafts through one of the hills where the lodes are most promising; and are raising from the lodes near fire fair supply of excellent ore, about 130 tone of which have been sent to Port Adelaide.

From the Victoria Gold Mine we have no particular report; except that the qualities turned out within the last fortnight have been less than was intichated by the share-holders. Sich lodes of copper are reported to have been opened on the section recently purchased by Mesers. Castles and Gwymne, near makeful." As this mine is not more than the milles from Adelaide, its value is likely to be much enhanced by the comparatively small expense of carriage to the port.

From the lead uphnes we have no report. The English Company formed to work the Glen Osmond Mine is shortly to commence operations on an extensive scale. It is believed that the difficults in the way of arranging the grant of the special survey, at the Recond Creek, taken by the local directors of the London Mining Company, have been overcome, and that the land grant, with the reservation of royalites, will be provisionally accepted—leaving the question as to their utilizate imposition to be selfed between the Colonial-office authorities and the London directors of the company. The porrespondence

SPONTANEOUS COMBUSTION OF NEW ZEALAND ORES.

SPONTANEOUS COMBUSTION OF NEW ZEALAND ORES.

Dr. F. Campbell, of 275, Castlereagh-street, Sydney, in a communication to the Sydney Morning Herald, in reference to the spontaneous ignition of copper ore during its conveyance to Sydney from New Zealand, by the ships British Soverign and Regia—[ the particulars of which appeared in the Mining Journal at the time]—thus describes the ore in each, which he had separately assayed—using what is called the woist nictiod;—

100. GRAINS COPPER ORE—per Regia.

Sulphun 100. GRAINS COPPER ORE—per Regia.

Sulphun 100. GRAINS COPPER ORE—per British Sovereign.

100. GRAINS COPPER BRITISH SOVERED SOVE

Astronomics Fact.—Notwithstanding the progress of railways, and the great transfer of locomotion to them from the metropolitan turnpike-roads, the Surrey and Sussex roads have been just leased to Mr. Jonas Levy, at 30,250, per annum—being an increase of 1350% on the previous year, and the highest unrount they have ever fetched.

ON THE RESULTS OF AN EXTENSIVE SERIES OF MAGNETIC INVESTIGATION, INCLUDING MOST OF THE KNOWN VARIETIES OF STEEL.

VARIETIES OF STEEL.

The following is an abstract of a paper, which was read at the Braish sectiation, at Southampson, by Mr. W. Petrie:—

The following is an abstract of a paper, which was read at the Braish Association, at Southampton, by Mr. W. Petrie:

Process of manufacture to produce permanent Magnets, having the greatest fixity and capacity conjointly secured:

1. The original fron should be the purest soft iron, charcoal midd (sot soke); the Swedish, from the Dannemora Mine, is better than any other.

2. Converted: with pure charcoal; it should be earbonised hightly, and the process to be stopped when the bars, of the usual thickness, are "searcely steel through," yet so that it will harden with certainty, without an undue heat.

3. Sorted: with attention to homogeneous conversion, &c., according to the ordinary rules.

4. Melted: the pot kept covered, and not longer than necessary in fusions.

5. Cast; into a large ingot, so as to allow of its being well rolled out singly, before it becomes reduced to the requisite thinness.

6. Rolled: while hot from casting, to save a second heating; it should not be doubled over, nor sheared and faggotted; the rolling should be conducted at as low a temperature is convenient, as it thereby acquires a harder, closer texture, and finer grain.

7. In cutting into shape, the substance (if large or of varied form) should not be strained, as by boring with "rymers," or straightening, oftener than is unavoidable, with the hammer, as it is then any to warp, and to have unseen commencement of cracks on becoming subsequently hardened. More carbonisation than that previously described as best is of little injury to the magnetic goodness of the steel, provided it be so prepared as to preserve a homogeneous and white appearance of fracture when hardened, which is not so easily managed as with that of lower carbonisacion; but if it be again carbonised more than usual fas rayor steel, or above that), it rather improves; and again an increase deteriorates it as in castiron, and a further increase again improves it—in short, in the scale of carbonisation there is a succession of continually decreasing maxima of advanta onisation there is a succession of continually decreasing maxima of advi

bonisation there is a succession of continually decreasing maxima of advantage.

On the physical properties which the Steel should possess.—The fineness of grain is affected by many adventitious circumstances, which must be considered and allowed for in judging of it; and the most important fact is the difference between the appearance in the hard and soft states; for in the general properties, whether optical, mechanical, or magnetical, their order, in any set of samples, is reversed in the hard state, independently of the absolute change in each property. The steels should be examined by breaking with a single bend at a file notch (notching with a chisel, bending back, &c., change the appearance). A microscope of 6 or 10 lineal power is better than any other power for examining it. The general properties, without going into detailed description, should be as follows—the terms being comparative with other samples of less value, and not all with the hard or soft states of the same steel:—

18 A BOTE STATE.

General appearance, uniform darkish grey.
Rather a large grain, compared with razor steel (or finer, if much rolled).
Rather irregular in size and shape of grain, unless fine. Rounded crystallisation.
Close texture, without-cavities.
Rather tough for steel.
Close texture, without-cavities.
Rather tough for steel.
Steel (crystallisation disappears. Grains individually distinct, with gold metallic lustre.)
Rather tough for steel.
Steel (crystallisation disappears. Grains individually distinct, with gold metallic lustre.)
Rather tough for steel.
Steel (crystallisation disappears. Grains individually distinct, with gold metallic lustre.)
Rather tough for steel.
Steel (crystallisation disappears. Grains individually distinct, with gold metallic lustre.)
Rather deal (crystallisation disappears. Grains individually distinct, with gold metallic lustre.)
Rather deal (crystallisation disappears. Grains individually distinct, with gold metallic lustre.)
Rather deal (crystallisation disappears. Grains individually distinct, with gold metallic lustre.)

Close texture, without cryities,
Rather tough for steel.
Attracted considerably before magnetising,
Loses induced magnetism more freely than
Retains magnetism well, and abundantly,

Care must be taken to discriminate between real cavities and indenta-Care must be taken to discriminate between real cavities and indenta-tions arising from the crystals being torn up by the breaking; prace iron-often appears porous from this cause. Then followed some peculiar con-siderations on the chemical constitution and molecular arrangement of cer-tain sorts of steel; and on the molecular peculiarities of iron and other metals, in connection with their magnetic capacity, illustrated by a tabu-lar arrangement.

metals, in connection with their magnetic capacity, illustrated by a tabular arrangement.

On hardening, &c.—In the ordinary process there is risk and difficulty for large work, owing to unequal heat, unnecessary time and heat applied, especially to fine edges, decarbonisation, scaling, &c. These are obviated by a process which is new, as applied on a large scale—namely beating in melted lead. It will be observed, that the precise heat is imparted, quite uniformly, in half a minute or so; and the finest edge is heated momentarily no higher than the thickest part, rendering this process incomparable for all instruments, where it is the edge or smaller parts that are of importance. No scale is formed, the finest polish or sharpest edge being preserved through the hardening. The previous pre paration of the steel and some other points are described; and particulars of the manner of refrigeration in water (salt), and for securing hardness and great evenness, are also detailed. The process has been applied to steel sheets of 10 inches by 20, obtained quite flat, and as hard as a file throughout, even at the middle parts, which has hitherto been found very difficult—we may say impossible. Magnets, prepared by these means only, differ generally in magnetic power by 30th part, many being absolutely equal. Particulars are then given of the advantage of certain high powers for magnetising bars, and of an apparatus constructed, weighing 2 cvits, and possession of the Royal Society, weighing, we believe, 2 tons. A method as suggested for verifying the constancy of magneto-meteorologic instruments, by means of the terrestrial magnetism itself, independently of its own variations, or of the comparison of the fusion of three or more bars.

# Current Brices of Stocks, Shaves, & Metals.

Bank Stock, Tiper Cent., 2004

§ per Cent. Revised Ann., 201

§ per Cent. Consols Ann., 504

§ per Cent. Annuities, 94

§ per Cent. Annuities, 94

Long Annuities, 95

STOCK EXCHANGE, Saturday morning, Treeles of clock? Delgian Bounday were not, Preere access.

Belgian Bounds, 45 per Cent., 594 and along be Drazilian, 5 per Cents, 349 and along be Brazilian, 5 per Cents, 445 and 10 source in Chillan, 6 per Cents, -2 per Cents, 25 per Cents, 25 per Cents, 26 Ditto Deferred, 17

Sper Cent. Consols for Acc., 984
Exchange. Bills. 1005... 14 13 pm.

MINES.—The amount of business done has not been extensive during the past weeks but there are signs of an improving market: shares have, in several instances, maintained former quotations, whilst a few have attanced monopat which business has been done, we may usme—Stray Park. Callington. Trelawney, France, Devon and Courtney, Concord, Kirkendbright. Trewallack, West. Trethellan, Tannar, West Wheal Jewel, South Frances, and South Trelawney, Trehane. The mining share market in Tavistock has been dull, and but few shares have changed hands—those are Tavy Consols, Wheal Carpenter. Wheal France, and West Wheal Frendship: much interest was excited by the meeting of the shareholders in that town, on Tuesday Jost, reported in another, column, when every adventurer in the neighbourhood was present, with one exception. We learn, by this morning's post, that transactions have taken place in Cornwall—in Holmbush, at 10; North Pool, 55; South Wheal Francis, 160; Tamar, 5; Trewallack, 164; Thieroft, 10; Ting Tang, 16. West Trethellan, 30; West Wheal Seton, 50; and Wheal Bucketts; 25.

RAHWAYS.—After the unprecedentedly mactive state of the share market, during the week ending the 10th, which we noticed in our last number, we are happy to say, that a reaction took place on Safurday last, and which has since been supported; orders to buy have been received by the brokers to a greater extent, we may almost say, than for months past; and most kinds of stock, which had been so depressed in the previous week, have, with few exceptions, regained their biograncy. On Wellamsday, foreign securities rather tended to a decline; and a sadden and unlooked-for depression occurred in the share market generally, owing to the fall in the consol market. On Friday, however, processory rallies, and the market seamed a firm and healthy appearance.

HULL, Incaspar. The state market, with a slight change for the better at interva-

MONI waur 20 mont 19 ley 19— WED! Hartley, ley 16— 35 6—R. leld Moc Close 17 Co. 17 3—4 Hetton 2 19 6—Sh Hall 19—Adeliade Tees 20—Hartley

remains dull and sepressed. An infinity of reasons we sessioned for this; but we are inclined to believe that the large amount of sechele by purious whose chief operations are in shares, will be found a better key to the present dulliness than any want of confidence in the ultimate well-doing of the lines. This fact, certainly of more consequence than the general ones of the "pointo crop." "Spanish marriage," for. It dealers look over the amount of stock they hold, and consider how much less frequently they give orders to the brokers, the state of the market will create the more surprise than is matural in these who hold shares, which, see a matter of course, they think ought to advance.

-sang Court moraliway share List.	charrenal	nort mos
and other.—2. Converted: with pure charcon!; her and the process to be stopped with pure.	Closing pr.	Closing p
Aberdeen San Stranger and Erewash Junction 24	2	15 24
Amber, Nottingham, lioston, and Erewash Junction	S TOTAL	
Rirmingham and detord sunctions sursulates service service of a	ta lake	108 JUSA
	NE 82 1	82
Bristol and Gloucester—500 per share 30 Caledonian —501 per share 25 Chester and Holyhead 50f shares 27	11 02010	101211
Chester and Holyheath Dof shares of	000234	ms 238
Direct Northern 507 shares	212	21
Eastern Counties—25/ shares 45 East Lincolmshire, 25/, shares 14 East Lincolmshire, 25/, shares 14	176	175
East Lineshishike. 10. 97501. 11 Annual Control of the Annual College	70 1	70
Edinburgh and Northern	wanto:	10
Exeter, Teovil, and Dorchester 50/ shares 11.1	mps dis	11 dis.
	COG dis.	dis.
3001c min Donessuter 200 sam and Lyna) 14 grant Eulon (Kottingham) and Lyna) 14 grant Southern and Western (Ireland) 507, shares 274 grant North of England -1007 shares 100 grant Western -1001 shares 85	31	294
reat North of England-100/ shares	233	235
reat Western 1001 shares	135	137
full and Selby -50/ shares	106	1074
Tull and Solby -501 shares	191977 191	74
	S CLEMECCON	TO PHOTO
cicester and Birmingham —20s shares	dis.	dis,
eicester and Tarnworth 20/ shares	dia	dis.
travnool Manchester and Newstatle Junction 94	195	196
ondon and Blackwall	91	9
ondon and North Western stock, ondor and Blackwall Av 16/133 42 ondon and Blackwall Softwares 50 ondon and Brighton 50/shures Av 13/16/29d	10 1214	214
ondon and Greenwick Av. 22 15 44 ondon and South Vestern Av. 41 16 106 ondon and Touth Vestern Av. 41 16 106 ondon and Touth Vestern Av. 41 16 106 ondon Salisbary, and Youth 500 slares 28 ondondry and Coleration 500 slares 28	nle oldice	for rate 3
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ondonderry and Coleraine 50/ shares	101101 3	15
ynn and Ely—25/, shares 15 ynn and Dercham—25/, shares 15 (anchester and Lee is—100/ shares 8	12	124
Inchester and Richardson 40/ shares	101	1014
lanchester and Birmingham 40/ shares 40: 40: 40: 1 anchester and Birmingham 40/ shares 42: 42: 42: 42: 42: 43: 43: 43: 43: 43: 43: 43: 43: 43: 43	. I pm.	pm.
	130	134
Ditto Birmingham and DerbyStock	109	110
ewcastle and Berwick — 25/ shares	284	25
orfolkStock 100/	131	133
orfolk Stock 106/ orth British — 257 slisives 25 orthern and Eastern — 50/ shares 50 orth Kent and Direct Dower — 50/ shares 24	70	334 xx
orth Kent and Direct Dover 50/ shares 21	order vide	robleting for
orth Staffordshire—20/ shares 42,5 xford, Worcester, and Wolverhampton 121 ortsmeuth Direct—50/ shares 31	14 pm.	1. pm.
ortsmeuth Direct -50/ shares	4 pm.	44
eston and Wyre -257 shares	01 23 HILL	304
ottish Central—257 shares	101118	181
reston and Wyro – 23' shares	olm 101	10
rewsbury and Birmingham	bis il	ote habit
nrewsbary and Birmingham  auth Deven—50f shares  ath Eastern and Dover  Av. 33; 2s 4d	38	382
nth Midland - 201 shares 42s	11 dis.	11 dis.
outh Wales 50/ shares	1-47	Action of
outh Wales—50/ shares	01 53 amo	Strong off
est Riding Union	ora pmo	THE OWL AND
ilts, Somerset, and Weymouth 50/ shares 10	d I I day	.ba.Athar
est Riding Union 42 ills, Somerset, and Weymouth 50/ shares 10 28 rk and Carlisle 50/ shares 50 b0	ming # Ma	ri nation
Ditto-Sciby-tof-shares out and partitions in a 12-40	inaishe	79 81 0
wlogne and Amlens—201 shares	145	148
alogne and Amiens—20/ shares rdeaux and Toulouse and Cette (Mackenzie)—20/ shares 2	la die.	1 1 30
ntral of Spain 201 shares 2	STEASTO	og relise
tch Rhenish -20/ shares	(JIM) TO	ne de no
eat Northern of France Toonstituted)	The error	193
eat Western Bengal Maland Junetion 201 shares	quate fis	entranto,
uvaine a la Sambre – 20/ shares	mil 1	Parcel 9
ons and aviguon -20/ shares 2	Sinting of	M. Mile
mur and Liego 20/ shures reserved and the second	n ods to	North no
leans and Vierzon-20/ shares	mildia	14
loons and thunking the control of		Instruent
leans and Bordeaux 207 shares	44	
Ils and Crecius - 20/ Bhares (1. fo	48 .71	ino 48 avo
leans and Yluzon—20 sluces leans and Torleans—20 shares leans and Borleans—207 shares fs and Lyeens Constituted fris and Orleans—207 shares fris and Rouen—207 shares gen and Havre—207 shares gen and Torleans—208 shares		

# elatifrateway traffic hetorns title tit

From these returns, it will be seen, that the amount of traffic for the last week, on nearly 250 miles of railway, was 172,6601, thus accounted for c=96,6811, for the conveyance of passengers only, 25,0221, for the carriage of goods, and a remainder of 34,6621, for passengers and goods together, not respectively appertioned; being an increase over the corresponding week of last year of 31,8544

Name of Railway? stree?	Leth.	Present ac-	Last	Traffic Returns		
Sents., 252	Rway.		Div.	1846	1845	
Arbroath and Forfarth		£142,900	3p.c.		£ 170	
Chester and Birkenhead		658,293	24	674 13 9	779	
Düblin and Drogheda	32	699,975	34	763 8 9	742	
Dublin and Kingstown		1 88849(736)	g . Wien	1878 14 16	993	
Dundee and Arbreath		ni v166,324 m	16 ×	322 2 101	294	
Durham and Sunderland		an309,118 m	79277	6647 atkindir	26.725	
E. Counties & North & East	161	4.746,113	mn 889	9526 2 4	6385	
Eastern Union Edinburgh and Grasgow	O 4690	THE STATE OF	12 A	405 9 4	don'T mo	
Glasgow, Paistey, and Ayr		2,112,736	BORAT	4017 8 11	2873	
Glasgow, Paisley, & Greenuck	1923	1,801,381	mean?	2914 19 9	1948	
Gravesend and Rochester	THE TANK	1 91829, 427	111123111	939 13: 12	862	
Great Western		82,828	in mail	SAUTES PURKS	97 3197	
Hartlemed water 3ab 15 Int do law	: 24kab	8,685,605	16 17	19668 19 6	19230	
Hartlepool London and North Western,	4404	16,327,526	10	929, 3 6	1225	
London and Blackwall	minu s	1,078,761	VIII V	900 0 0	39589	
London & Brighton & South Coast	213	4,670,721	7 10 .1	10071 1 6	860	
London and South-Western	106	3,648;547	10401	6909 6711	7160	
Manchester & Leeds	1170	4,636,556	J.A.ITa	9278 19 6	7340	
Manchester, Bolton, & Bury	10	842,725	50	Sarid Taller	1015	
Midland Company	331	8,831,195	*thirton	19959 5 6	18250	
Newcastle and Cartisle	1065 0	1,137,385	receirer	12015 4 TO A	1879	
Norfolk and on a series were dans out		985,080	25. 121	1558 10 04	1443	
North British	73	1,459,957	L. Tarana	1201 4 4	12 400	
Preston and Wyre		432,014	24	763 15. 2	551	
Sheffield and Manchester	19	1,633,331	S CAN I	1888 15 0	1208	
South Devon	000	778,976	TOT ILVE	875 17 11	ANUL 25.51	
South-Eastern and Dover	120 -	6.613.335	84	10402 14 3	8364	
Taff Vales being to vale and the	10 30 m	690,229	ile II	14247 BIAZON	1144	
Ulster . gagata and bere desperance.	25.	350,353	ober 1	789:44 8	687:	
York and North Midlend	162	2,334,599	10	6856 3	.5882	
Northern of France	260	e sumed a	driver	10000 0	ilar min	
Orleans and Bordeaux	72	599,040	9 0 19	3513 0 0	agt of tas	
Paris and Orleans	T 82	2,082,916	91	9222 0 0	8244	
Paris and Rouen	85.	1,995,306	8.	7648 0 0	6644	

COAL MARKET, LONDON.

PRICE OF COAL PRI TON AT THE CLOSE OF THE MARKET.

MONDAT - Schart Main 15 6 Carr's Harrier, 18—Havens or the Market.

MONDAT - Schart Main 15 6 Carr's Harrier, 18—Havens or the 18-day 15—Elsacon, 19—Eraddjills Heltun 26 6—Heltun 26 26—Wall's End Hilds 18—Eramany 15—Elsacon 19—Eraddjills Heltun 26 6—Heltun 26 26—Heltun 27—Heltun 27—Heltun 28—Heltun 28—Harrier, 18—Elsacon 18—Heltun 28—Harrier, 18—Heltun 28—Harrier, 18—Heltun 28—Heltun 28—Heltun 28—Heltun 28—Heltun 29—North Helten Lyons 18—Heltun 19—Heltun 19—North Heltun 19—Heltun 19—North Heltun 19—Heltun 19—Heltun 18—Heltun 19—Heltun 19—Heltun 18—Heltun 19—Heltun 18—Heltun 19—Heltun 19—Heltun 18—Heltun 19—Heltun 19—Heltun

TRIDAY.—Adair's Main-18 6—Chester Main 16 9—Forest Main 17 6—Graco's Hartley 16—Hollywell Main 17—North Percy Hartley 18 6—Old Fontop 13 6—Ord's Redheugh 18 6—Ravensworth Penke 18—Steward's Hartley 16 9 to 17—Shafton Hartley 17 6—Tay-lor's West 18—Austheld Moor 16 3—Tay-sell Jaim 14 6—West Mylson 16 6—Edon Main 19 3—Haigh Moor 16 3—Sidney's Hartley, 19—Wall's Rud Isowick and Co. 18 9—Clarke and Co. 17 6—Clarke 17 6—Gosfurth 18 6—Heigh Beanish 16 9—Klillingworth 18—Northumberland 18—Riddell's 18—Whatraclard 18 3—Belmont 19 3—Braddyll's Riction 20 3—Hinchael 18 6—Hetton 20 3—Lumbton 20—Russell's Hetton 19 9—Stewart's 20 3—Wearmouth 20—Whitwell 18 3—Caradoc 19 6—Hartlepool 20 6—Heagh HaR 19—Endworth 20 3—Bearcet 18 9—Borwin Jennery 19—Seymant Tees 19—West Hetton 18 3 to 18 6—Ships at market, 100; sold, 69; usuold, 31.

ords JE		INING SHARES.
Share	BRITISH MINES,	BRITISH MINES continued.  Shares. Company. Paid Price
		124 South Wh. Francis 67 140
1000		256 South Wh. Hope 8
4000	Bedford 24 8	256 South Wheal Rose 111 1
320	Besore Lead Mine 14 30 Birch Tor Tin Mine 12 10	1 10000 Settetter lies is cotes mission a
2000	Ringuagen 50 40	256 St. Austell Consols   7   16   94 St. Fves Consols   600   1000 Stray Park   45   91   9600 Tamar Consols   3   8   1024 Tary Consols   14   34   6000 Theroft   7   10   256 Ting Tang   89   21   128 Tokenbury   124   20   256 Trebane   17
100	Botallack	9600 Tamar Consols 3 6
10000	British Iron, New, regis. 10 19	1024 Tavy Consols 14 34 6000 Tineroft 7 10
128	Dillo Millo, Scrip 10 10	256 Ting Tang
100	Bwich Cwineran Zu	256 Trehane
256	Curadon Consols 45 95	
256	Caradon Copper Mine 94 1.	256 Trenow Consols
256 256	Caradon United 24 12 Caradon Wh. Rooper 12 7	120 Trethellan 30
1000	Carn Brea	256 Trewallack 15
114	Cleveland 9 7	1 128 Trewellard 12 254
1900	Combinartin 54 41 Comblawn 24 2 Comfort 40	4000 United Hills
128	Comfort 40	128 West Basset 45 10
128	Comfort 40 Con. Tretoil Mining Ass. 35 . 4 Condarrow 45 . 46 . 52	128 West Cargoll 2 12
1000	Cook's Kitchen 4 Copper Bottom 1 5	- West bekewich Consols 24
	Cosheen 4 30 Craddeck Moor 25	256 Whent Kekewich
1.94	Chance Remark 11 190 900	1 900 West Seton
7100	Derwent 84. 5	120 West Trethellan 5 80 256 West United Hills 24 8
1024	Devon & Courtney Con. 4 41	129 West Trethellan 5 80 256 West United Hills 24 8 256 West Wh. Friendship 71 5 3846 West Wheat Jewel 11 12 2560 West Wh. Maria 4 2
186	Dolcoath	2560 West Wh. Maria 2
256	East Alvenney 3 10	256 West Wheal Shepherd 6
1 194	East Caradon 40 63 East Pool	
128	East Relistion 10	240 Westerlake 8 8
3000	East Relistion — 10 East Tamar Consols 11 3 East Wheal Albert 1 3 East Wheal Coffy — 300	240 Westerlake 8 3 6600 Wicklow Copper 5 16 1000 Wheal Agar, 256 Wheal Albert 10 8
256	East Wheal Croffy 300	256 Wheal Albert 10 8
256	East Wheal Kitty	256 Wheal Alien
123	East Wheal Seten 24 12	los Wheal Ann
20000	Galvanised Iron Co. 10 10	128 Wisel Aciand   15   26 Wheal Ailen   4   4   368 Wheal Ailen   10   11   1   198 Wisel Ann   50   128 Wisel Arvose   2   22   256 Wheal Bignowe   12   256 Wheal Bignowe   1   2   2   256 Wheal Bignowe   1   2   2   256 Wheal Bignowe   1   2   2   2   2   2   2   2   2   2
10000	Gen. Mining Co.for Irel. 4 4	256 Wheal Cleveland 7 64
956	Congressor	1 126 Wheat Oleveland
2444	Gover 23 200  Grambler & St. Aubyn — 21  Great Cousols	1024 Wheal Concord 6‡ 5 512 Wheal Elizabeth 2‡ 5 256 Wheal Fortescue 4 8
256	Great Consols 1000 400 Great Calestick Moore 62 19	256 Wheal Fortescue 4 8 256 Wheal Frederick 3 20
956	Creat Marchet Consols 77	384 Wheal Franco 25 30
512	Gt.Wh.RoughTorrCon. 1 20	128 Wheat Harriet
1000	Growth longia for Con. 1 20 Grogwinion 1 4 3 Hansun 1 4 3 Harrow barrow Old Mine 1 4 4 Harrow barrow Consols 2 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2048 Wheal Holwell 14. 14. 14. 19 Wheal Hope (Zennor) 23 25. 256 Wheal Jane 6. 40
1000	Harrowbarrowelld Mine 14 8	256 Wheal Jane
6000	Hawkmoor 2 2  Meignston Down Con. 1 2  Merodsfoot 14 10  Miseratian 121 1	1024 Wheal Maria
10000	Herodsfoot 14 10	256 Wheal Mary Ann 5 80 1024 Wheal Mary (Calstock) 42 12
Tenda	Hobb's Hill was a A B	the comment of the co
256	Holmbush 18 9 Ivy Tor 1 21 Kirkcadbrightshire 3 5 Lamingrooe Wh. Maria 8 4 Lamivet Consols 2 3	256 Wheal Mary Pentuan., 1 2
2045	Lamburooe Wh. Maria 8	256 Wheal Maud 12 4
2048	Lamiyet Consols	256 Wheal Norris 9 3
160	Levant	198 Wheal Promeet 4 6
1280	Lewis 15 a Liancynfelin 6 10	128 Wheal Providence 34 40
4000	Marke Valley	1 Shirt What Malanthia e 12
30000	Mencip Hills of Section 15	512 Wheal Surah 24 5
200	Mining Co. of Ireland 7 12 Nanterrow Consols 141 10	99 Wheal Seton
128	New East Crowndale. 2 . 2 North Fowey Consols. 13 . 28	1024 Wheal Spearoo
70	North Pools come boat 10 ad off of	260 Whenl Trelawney
256 1	North Treburget 21	256 Wheal Trevenna   3   4   256 Wheal Trevenna   10   128 Wheal Victoria   2   2   27   Wheal Victoria   2   2   27   Wheal Victoria   3   3   3   3   3   3   3   3   3
256 2	North Wh. Leisure 14. 4	128 Wheal Venland 124 10
1000 h	South ann Cloud Ha	TOSA WHOM WHITEIT TO ST. OT
128 F	Par Consols	illos ed ben jeltemans in vi je i 200
256 P	embroke	5000 Alten Mining Company 142 . 3
6000 P	emant disease of the deal la bout 14	15000 Asturian Mining Co 6
128 P	en-y-Cein Mine 50 55	3374 Ditto Subscription 25 4
1280 P	erran St. George Un. 13 . 20	2000 Bolanos
512 P	Smouth Wh. Yeoland 11 31 q	3000 Atten Mining Coripany   144   3   14000 Astrian Mining Co. 8   3   14000 Astrian Mining Co. 8   3   14000 Astrian Mining Co. 100   8   374 Ditto Subscription   25   4   2000 Bolanos   150   6   12000 Ditto Scrip   15   5   10000 Buzillan Imperial   20   4   12000 Corips Corips Co. 40   98   12000 Corips Corips Co. 40   98   12000 Corips Corips Co. 40   98   12000 Corins Corins Corins Co. 40   98   12000 Corins Cor
256 B	Redruth Consols 8 9	8500 Colembian Co. mode to 88 a col
10000 R	bynney Iron 50 25	10000 Ditto Scrip

1 400	North wh. Leisure 14 4	256 Wheat Victoria 2 2
128	North Wli. Providence 21. 10	127 Wheat Virgin 50
256	North Wheal Ross . 264 110	1024 Wheal Walter 4 34
<b>νο</b> Ω0		256 Wheal Williams 2 20
600	Old Delabola Slate Co. 25 45	fillog and there afrancurate emert names at
128	Par Consols	The state of the s
256	Pembroke 21	FOREIGN MINES.
256	Penimilow Moors to shall need to An a	5000 Alten Mining Company 142 . 3
6000	Permant de de de de la lacte de lacte d	15000 Asturian Mining Co 6 3
100	Penrhiw	10000 Angle-Mexican Co 100 2
128	Penrhiw	3374 Ditto Subscription 25 4
1280	Perrun St. George Un. 13 20	2000 Bolanos
128	Perran Wh. Virgin 91 40	12000 Ditro Scrip 15 5
	Plymouth Wh. Yeoland 11 31	10000 Brazifian Imperial 20 4
"2048	Prince Edward . weeks at 11 we at 11 to	12000 Cobre Copper Co 40 28
256	Redruth Consols 8 9	8500 Columbian Co. regis 1153 3 1114
10000	Rhymney Iron 50 25	5000 Ditto Serio
256	Rose Comols 10 3	10000 Copiapo Mining Co 14 3
1000	Rosewall Hill Date	20000 General Mining Ass'n. 20 . 154
2500	Silver Valley done was 8 2	5051 Mexican Company 59 4 . 4 5
256	Sourton Consols	12000 Mocaulus & Comes out 25 and 24
TO 128	South Caradon 10 350	29320 (Ridel Monto, regis, ) 262 . nr. 4
2000	South Dolcoath 2	Ditto unregistered   281 . av. 4
256	Sen. Frenden. Wh. Alli / F. 10	
	South Harvannah 28 23	Boiles Ditto Black ditto
194	South Tolgus 21 3	W . Ditto Loan Notes 150 117
800	South Towan 10 14	1000 Royal Santiage 10 16
256	South Trelawney 124 8	2000 Pachuca Mines 8 24
128	South Yeoland 164 20	11000 St. John del Rey 15 94
128	South Wheat Basset 120	43174 United Mexican 281 34
		b, or others interested, furnishing us with

128 South Wheat Basset: 129 43514 Upwer Messecul visibing as with such corrections for our Shape List as see may not have received through our usual channels of information—our object being, to present as accurate a list of prices as can be obtained—to proceed which, we solicit the old of correspondents in general.

# LATEST CURRENT PRICES OF METALS.

407 35	adl . abwoon	LONDON, OC	TOBER 16, 1845. player med eved Idair
been a	barrel. The re-	A Miniking	Corres Ordin sheets ib. 0 0 0 0 10
1	London	9 15-10 0 0	bottoms 0 0 0 0 11
n mag	Nail rods	0 0-10 15 0	TIN-Com. blocks g cut. 0 0- 4 15 0
Dob a	Hoop(Staff),	0 0 13 0 0	Befined 0 0 4 16 6
marke	Bars Obella Tende	11 0-11 10 0	hatudint Straits & Live a Cont 181 4499 16
ргісев	Welsh cold-blast ]	0 0-5 5 0	bulabod Banca . si simular 514 60 15 1 200
doutw	Scotch pigs, Clyde	3 10- 3 11 6	TIM-PLATES Ch. IC L. ban 1 9-11111 0
	Rails, average	9 15-10 0 0	Coke, IC 1. 5 6 1 6 0
HOLDER )	Russian, CONDes.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LEAD Sheet 2 100 0 0 19 5 0
dessit	Jost au Couriett	Outominates of	Pig, rufined 0 3-20 10 0
di Jiga	redish don the spot		marad a, tocommon : . v. 0. 0 - 18 10100
intion	, Steel, fagt.		1) plumped in control of this to a part
ilw in	Jan 2 organices	3 75-14W 0:0	SPELTER (Cake) 2 6 0 19 0 0
COLAR	Tough cake	0 0 87 10 0	Zinc(Sheet) in export.* p 6 ga 0 0
Baron	Best selected	0 0-91 10 0	REFINED METAL (ON O O
a Di	scount 24 per cent.	b Not mah.	Discount 21 per cent, and d Ditto.
in home	gs a and s-inch.	Discount 3 per	cent. g Ditto 24 per cent. h Net cash.
m Disc	ount If per cent. "	m Discount Li	per cent. * For home use it is 32% per ton.
7979	where the great	Aire sof our um	se potential per persons acquainted as
del l	-10 m 111 4 -31111 3	mos[Lyom:our C	manhowment in case sur the franching of se

I now Welsh and Staffordahlire in good demand. Scotch big has been sold this week at 67s. 6d. for inthed Nos; and at 65s. for all No. 1, at which rates a considerable business was done, to day the prices are full 2s. per (on higher.

Trs. — English remains unaffered in price; but the supply is still yory, short of the damand. A partector 74 states Strains sold at public sale, on 13th that, at 37s. 6d. to 20t.—the greatest portion at the latter price; and Eanca has been sold at 100s. to 101s.

Synature is firm at 191., both on the spot and for arrival, and some parcels have been

sold during the week at this price; other metals rea thing particular to notice in them.

English continues steady; a considerable flucture of the processors without my fine the processors with the state place during the last 10 days in Scotch pig-fron—sales having been made son has taken place during which prices have rallied, and we may quote the market firm ow as dis. Set, cash, since and 72s, for all No. 1 cash. English copper is in fair demand of hostions, as also English and foreign tin have been in great request; we shall Straibs tin were sold on Tuesday last at 98s, and 99s. The plates remain firm at set for the coherence of the processor of the processor of the straibs of the processor of t

GLASGOW PIG-IRON TRADE.

GLASGOW PIG-IRON TRADE.

SIS.—There have been considerable fluctuations in prices since our last, cone time sales were effected as low us 68s. 64 for mixed Nos., and 70s. for No. 1, cash into days—now they are being made at 70s. to 71s. for mixed Nos., and 72s. for No. 1. The seeling is improved, and holders have become firmer. The shipments from here, both consequent for the strength of the strength o

SOUTH-EASTERN NORTH KENT RAILWAY.—The works of this important railway are proceeding rapidly at the London end. The first contract has been let to Messrs. Little and Sons, who laid the first brick of the new work on the 28th September.—The work consists of a further widening of the viaduct of the Greenwich Railway to the extent of 22 ft, 6 io., in addition to its present width, for the necessary additional rails, preserving as much as possible the original character of construction. This great work is under the immediate direction of P. W. Barlow, Esq. F.R.S., the resident engineer of the South-Eastern Railway. We understand that the whole of the line has been staked out, and that the widening of the Gravesend and Rochester Railway will be immediately commenced.

Great North of England, Clarence, And Hartlepool, Junction Railway.—This line, which is a bout eight miles in length, and which has been constructed for the unusually low cost of 10,000% per mile—having been purchased by the Newcastle and Darlington Railway Company—Monday last was the day fixed for taking possession of, and opening the same; when G. Hudson, Esq., on behalf of the latter company, the Mayur of York, and a numerous party of friends, were met at the Ferry Hill station, by the Mayor of Hartlepool, and a number of directors of the adjoining lines, when the two trains were united, and proceeded to Hartlepool, a distance of 16 miles, which was accomplished in three-quarters of an hour. The company afterwards sat down to a splendid dinner at the Kings' Head Inn; and at half-past 10 o'clock, Mr. Hudson, and his friends, were conveyed back to York by a special train. There appear to have been no particular engineering difficulties to aurmount on the line—a few deep cuttings, and one or two high embankments, being the principal, which accounts for the low cost in the construction. It is expected to be a prolitable adjunct to the Newcastle and Darlington line.

Ambergate, Northinghas, and Boston, And Eastern Junction Railway, in

adjunct to the Newcastle and Darlington line.

Ambrigate, Northigham, And Boston, And Eastrin Junction Railway,—A meeting of the shareholders of the above line was held on Thursday, in the Exchange Rooms, Nothingham.—W. F. N. Norton, Eag., presided. The report amounced the purchase of the Nothingham and Grantham Canals, at 2351 per share in each, or nine railway shares of 256, each, at par, at the option of the canal proprietors to be signified in writing to the directors, within two months after the opening of the railway between Ambrigate and Grantham for public use; and the latter canal art works at 1601 in each for each share, or six milway shares of 256, each, at par, at the option of the canal proprietors at 1601 in each for each share, or six milway shares of 256, each, at par, upon the like terms as before mentioned, relating to the Nottingham Canal. The Midland Railway Company have, under the optional power conseded to them of taking 10,000 shanes in the company, deel ined accepting them, but have entered into a friendly agreement to maked the line for about four miles to the west of Nottingham Jointly with this company, in pursuance of the agreement entered into with the Grand Union Italway, the share-holders in that company have claimed to register 26,884 shares in the capital of the amalgament companies, which will be a necessary consequence, occasion a diminution in the amount per share, which will be the sheen resurveyed and very slight alternation found to be necessary. No call will be made during the present year (beyond the sum of 2,12s,63, and the expenses to 24,2061. The expenses will not exceed 11s, per share, and the barbon of 1500. Per annum: the secretary's fixed at 300, per annum: and Messre, Glyp a not Co., bankers, London, appointed treasurers, with a remuneration of 1500. Per annum:

COPPER ORES
Sampled September 23, and S. id at Swansea, October 14, 1846.

Mines, Tons. Prod. Stand. Pr	ice.	Mines. Tons. Prod. Stand. Price.
Cobre 105 131 881 £ 9 1	0 0	Santiage 121 161 862 £11 14 6
ditto 90 134 874 9 1	1 0	ditto115 162 861 11 18 6
ditto 82 23 82 17		So 104 0.4 10 0
ditto 74 22 63 16		many a mag a
ditto 60 134 874 9		Chili 52 50 794 37 12 0
ditto 48 231 82116 1		
	6 6	
ditto 95 22 93116		
ditte 92 214 83 15 1		ditto 56 30 814 22 10 0
ditfo 64 134 884 9 1		
ditto 30 131 89 9 1		Mediterranean 28 . 61 . withdrawn
ditto 106 124 91 9		Lackamore 13 101 961 7 10 6
ditto 96 131 891 9 1		ditto 6 441174 2 12 0
Santlago 128 164 874 12		ditto 5 24 85 18 5 8
[2] [1] [1] [1] [2] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4		
VOIG 1 - N. ON PRINTSHIP & SHORT WAR TO	10073117	PRODUCE. A Count avent readinger out
Cobre	0 0	Kapunda 46 2702 13 0
		Mediterranean 24 withdrawn,
Chili 289 8708 1	1 6	Lackamore 24 204 13 6
Total tons, 1929.—T	oful a	amount £28,102 19s. 6d.

# COMPANIES BY WHOM THE ORES WERE PURCHASED.

tent rathout no .led bas nosh W .dea. Tons, !	2 to 8	ATO TA	mei	m#.	μ
English Copper Company		£5109	2	0	ł
Freeman and Co 92		1345	2	0	
P. Greufells and Sons 241 .		3920	.5	6	
Sims, Willyams, and Co 287 .		4715	14	.6	
Vivian and Sons					
Williams, Foster, and Co					ş
Mines Royal 243		2916	19	6	ŀ

# .las lo fint a v COPPER ORES.

NO SALE on Thursday last, October 15.

Copper ones for som on Thursday next, at Andrew's Hotel, Redright.—Mines and Pascels.—Devonshire Great Consols, Wheal Muria, and Wheal Fanny 1 43.—Tresavean 5 15.—West Caration 380.—Fowey Consols 243.—Wheal Flendship 235.—West Wheal Jewel 191.—Holmbuch 97.—Belford Officed Mines 82.—Mirk Valley 76.—West Wheal Jewel 191.

Holmbuch 97.—Belford Colled Mines 82.—Marke Valley 76.—Wheal Balley 47.—Wheal Gorfand 56.—Total, 3035 tons:

Copper ores for sale on Thursday week, at Farquinarson's Red Lion Hotel, Trure.—Mines and Parcels.—United Mines 1192.—South Caradon 376.—Par Consols 228.—Treleigh Consols 206.—Copper House Dross 158.—Creegbinvs 148.—Trethellan 35.—West Sixters 67.—North Downs 51.—West Trathellan 46.—Penpil Regulus 40.—Wheal Gill 38.—Tesal 2629 tons.

### PRICE OF MATERIALS, As Charged at Stray Park Mines, for July, and August.

Į	ORTHUBANATION THE De la Have, a British sanotrused ench ex-
2	Coal, cerriage included per fon 15s. Od 15s. Od.
1	Timber, balk 1.3
-	Iron; common per cut. 10 0 10 0
r	Caridles, Lendon b per det. 5 6 5 6
à	Tallow, best save and and survey of per cut, 44 0 . banks a well a
0	Oil, olivo vinna a evente en este por en per guilo 3 a 6 on este a me voll
a	TODE: (12 de de de de de la contract
	Ganpowder
	Nails, patent board
	their beitreh spikes de ingrande de ingran
1	Leather and standard array or
2	Leuis, white
8	Hills Per des. I 4
	Whim kitbles per dos

# WORK PERFORMED BY CORNISH ENGINES.

number of pumping-engines reported for the mouth of Sept. is 26—the quant consumed being 1573 tons, lifting, in the aggregate, 15,000,000 tons of water high—the average duty of the whole is, therefore, 55,000,000 list. lifted 1 foot-consumption of a bastel of coal. The following have exceeded the average:—

and Mines	portit batras in <b>Engines</b> our attack burners	Length of stroke	Load in pounds.	Lond per eq. (not)	Strokes Per min.	Con- sump. of cond in bus.	Million Ibs. Miled I foot by consump of I bush.com	quantity of water
	Roberts's 70-in.	970	79,374 47,090	44:6 13:9	4.9 7.9	1920 1684	s lasigue a ni co <b>ssis</b> cim cos <b>sisc</b>	drisco-
United Mines	in. combined sinus's 85-in. Taylor's 85-in. Taylor's 30-inch	10-0			5-6	797 1936 2996	iten <b>nya</b> io i Trafigo dieni Car, <b>Gya</b> rres o in <b>Ma</b>	107·0 283·0
Ditto United Hith.	Loam's 45-inch Hocking's 85-in Williams' 80 in. Michell's 70 in.			144 144 114 114 198	\$11.00 mg	2301 2301 2304 2007	5010 5519 657 569	12200

NOTICY TO CORRESPONDENTS

regularly, on p siving instructions.

"A Constant Poder" (Brixton) should address the secretary, at the offices, Old Broad-st
The Univers. Atmospheric System shall arreas to

"A Constant peder" (Brixton) should address the secretary, at the offices, Old BroadsThe Univers. Atmospheric System shall appear in our next.

"B. Atmospheric System shall be glad to receive the particulars of the transactions, suggested to—and, if deemed of enficient importance, to lay them, as a "cantion, leftos streets." Doubtless, much that is disreputable has taken place—but, ma, no want of proper caution, and an undue trust placed in characteriess adventures:

"the mere "trinkets for sale," be chargeable to many who would now declaim about having suffered from "the false representations of mine sharehovkers." Far be it from its to shield such doings of unprincipled persons, as, unfortunately, are too frequently brought nader our notice; but, as the best preventative, we would scribusly advisitions who are desirons of embarking in mining speculation, previous to so doing, to consult some respectable broker, several of whose addresses are inserted in our first page—they may then rest assured they are dealing with honest men, and whose interest is to protect them from milerspresentation and its ill consequences.

OCTH ACSTRALIAN MIRES.—Ervairem.—In last Journal, in noticing the 4) , ment of ore from the Burra Mines—the sum sectived for the 1197 tons sent to England 10,024/., was merely the sum drawn on secont, and is not to be taken as the actual value of the ores, which may prove considerable more.

BURNIES AND THE GEOMETRICAL RAILWAY.—Erratum.—In the letter of "Geometrical Railway.—Erratum.—In the letter of "Geometrical Railway." in last week's Journal, fifth paragraph, for "this antique is incapable of criticism."

\*.\* Our next Journal will be on the usual ENLARGED SHEET, and will contain, besides several articles and miscellaneous intelligence—continuation of the series of papers on the METALLURGICAL TREATMENT OF METALS—Letters from Mr. Burnier, Mr. Weston, "M. P. R.," Mr. Martin, &c.

# THE MINING JOURNAL

And Atmospheric Railway Sazette,

LONDON, OCTOBER 17, 1846.

In the MINING JOURNAL of the 29th of August last, we made some remarks on the growing success of the Alten Mines, in Norway, stating our belief that, if the then appearances continued, the directors would be justified, at their meeting in October, in declaring a dividend of 5s. per share. We are happy to find that our expectations have been fully realised, as will be seen by our advertising columns-a dividend of 5s. per share having been declared payable on the 26th inst. This dividend is bonû fide out of the profits for the half year to March last; and the prospects of the company are considered to be more flattering than at the commencement of that period, when indications of working to a profit began to manifest themselves. There is now the most sanguine expectations, that profitable results, through reduction of expenses, and other circumstances, will continue. The half year ending September last (the accounts for which have not yet been received), is fully expected to exceed, in amount of returns, the previous one; while, with that ending in March next, it is hoped the directors will be enabled to declare a still higher amount of dividend, when they shall have received the great of the precede. clare a still higher amount of dividend, when they shall have received the amount of the proceeds—namely, in the July or August following. These are but expectations, but they are anticipations which may reasonably be entertained by the shareholders, as the mines in the development of the past year have greatly altered for the better, and are dikely now to hold out and improve; which is the opinion of several first-rate miners acquainted with this locality. We believe the 'plant' to be one of the most perfect in Europe; there are abundant stores to keep up a sufficient force throughout the winter, no arrears of merchants' bills or mine debts to pay, and a fair balance of cash in hand, after the payment of the dividend. Under these circumstances, we think the shareholders may congratulate themselves on the aspect of their affairs, and we sincerely trust the promises now held out may be permanently realised. held out may be permanently realised.

The visit to this country of his Excellency M. Dumon, the French Minister of Public Works, accompanied by several eminent engineers, for the purpose of examining the principal railways, iron manufactories, and other large metallic establishments, and locomotive engine factories, will, no doubt, have a very beneficial effect, as the chief object of the Minister, we understand, has been to have ocular proof of our mining industry and engineering science, which has rendered England the admiration of the whole world. M. Dumon is a man of much experience, and, during the time he has been Minister of Public Works, has had every opportunity of appreciating the progress making in France, with respect to railways, civil engineering, and mechanical knowledge, so as to be enabled to form a just comparison between the two countries. We have before alluded to the project proposed by the several French Ministers to the Chambers, for the reduction of the duty on British castiron for shipbuilding, and other purposes, as also on machinery, which every one knows is very excessive. The Government has evinced a desire to make such a reduction, but has been strongly, and as yet successfully, opposed by the monopolists in the Chambers, and the different mining departments. During his short sojourn in London, M. Dumon has been several times at the Board of Trade, and every facility was afforded him by Mr. Porter, in obtaining the information required on the railway system of this country; and the changes intended to be introduced with respect to the broad and narrow gauge, the atmospheric system of propulsion, and the chief object of the Minister, we understand, has been to have try; and the changes intended to be introduced with respect to the broad and narrow gauge, the atmospheric system of propulsion, and all the minutiae connected with railway economy. It is, therefore, to be hoped, that ere long we shall have the pleasure of announcing that the next to prohibitory duties on British iron, machinery, coal, and other resources of this country, will be noticed by the French Government, for the benefit and commercial intercourse of two of the great automatical particular of the global statement.

The general demand for iron is increasing in a most unprecedented degree in this country, France, and Belgium; and, notwithstanding all the efforts of the iron and forge masters, they cannot keep pace with the orders received. The rapid progress of railways, the building of iron vessels, and the great increase in the use of iron for agricultural, building, and domestic purposes, has caused this vast addition to the trade, which could not, by possibility, have been conceived 10 or 15 years since, neither in the United Kingdom or on the continent. This extraordinary demand for every description of iron has naturally had a tendency to materially increase the price, as the ironmasters, both here and on the continent, are naturally as the ironmasters, both here and on the continent, are naturall auxious to make the most of the great requirements for the article in which they deal; and in France, particularly, a regular combinain which they deal; and in France, particularly, a regular combina-tion is kept up, which, with the Government protecting duties, renders iron nearly double the price it is in England. At St. Dizier, the great iron emporium of France, this metal is from 16l. to 17l. per 1000 kilogrammes; and, notwithstanding such exorbitant price, the manufacture has never been more brisk, both in the northern departments and Belgium; in the latter, the number of furnaces has greatly increased—those which were blown out in 1840, 1841, and 1842, are again in full operation, and a number of new furnaces are also erecting in various parts of the kingdom. The commercial tra-vellers from the forges no longer need to journey into the provinces for orders, as they pour in faster than they can be supplied. Neither is this a mere momentary demand, but will, doubtless, extend over years to meet the engagements of the railway contractors, for com-pleting the lines in progress, conceded, and yet to be conceded. The price of coke keeps pace with that of iron; and, as we have before stated, the scarcity of coal in France, suitable for making coke, is already becoming generally felt in the neighbourhoods of the furnaces. Amidst the great activity which exists, a fear begins to

prevail that there will be a falling off in the supply of ore; and should such fears be realised, a thorough stagnation of the iron trade of

We are ever advocates for the confinement of the establishment of nanufactories, and processes, whereby noxious gases are evolved, and the atmosphere deteriorated by deleterious compounds, to situaand the atmosphere deteriorated by deterrious compounds, to situations far apart from the abode of human life, and where they can neither destroy health, or injure property; but when we see a crusade got up against an establishment, from the working of which no such results can arise, we look upon it as emanating from a mawkish sensibility, or a desire to obtain notoriety, or some other interested motive, on the part of the "getters up"—we allude to the Western Gas Company, who are about to establish their works at Kensal Green, in a situation where, even if conducted on the system adouted 25 years are they could not be a purious. works at Kensal Green, in a situation where, even it conducted on the system adopted 25 years ago, they could not be a misance. The great improvements, however, which the engineer of this company has introduced in the manufacture of gas, render the operation so perfectly innoxious, that it can never be felt in the neighbourhood; there is an absence of all smoke from the chimney, as coke is to be consumed in the furnaces for heating the retorts as code is to be consumed in the influences for heating the retoristic the peculiar method of purification frees the gas from sulphuretted hydrogen, and ammoniacal gases: the latter being, with the napthal evolved from the coal, of too much value, as articles of commerce, to be allowed to escape, every precaution is taken for turning them to profit; while the improvement in the construction of the gas receivers. profit; while the improvement in the construction of the gas receivers, tar tanks, purifiers, and other parts of the machinery, render them gas-tight, and thus prevent any annoyance in their immediate neighbourhood, beyond the walls in which they will be inclosed. We think the few who have taken up the subject so warmly, are illadvised, and premature in their opposition; as, should the works prove, to the smallest extent, a nuisance, they could afterwards be removed by bill of indictment, or action at law.

Among the almost endless applications of physical science to the aseful arts, there is probably not one more important than the application of chemistry to agriculture. That individual will have attained to no mean height in a knowledge of agricultural chemistry, who has made himself acquainted with the properties of soil and manures, and their adaptation to each other, and to the crops of which they are to be the foundation and the food. The progress of agriculture has by no means kept pace with the arts, which are its companions in usefulness and antiquity; and the reason is that, through out its voyages, down from the primitive ages to this day, it has not turned aside, as it should have done, to avail itself of those helps which are subsiduary and illustrative. With an except in or two, which only proves more fully the prevalence of the rule, agricul-ture is now what it was when Virgil, in his Georgies, sang the Roman rationale of the art, and Ruth gleaned her little sheaf rearward of the reapers. What has been the amount of material loss—how deep the circle of wealth which has been obliterated by this neglect—it is past our arithmetic to cast up; but the loss of secondary food crops, in the islands of the United Kingdom, during the last two summers, has swept away capital enough to have endowed colleges of excitational contents and the contents are the contents are the contents and the contents are the contents and the contents are the summers, has swept away capital enough to have endowed coneges of agricultural chemistry from the Conquest until now. If Normal agricultural schools had been part of our domestic policy, it is probable we should not now find it beyond our power, either to remove or to restrain the pestilence that riots in our fields.

As it is not only one, but a majority, of the nations of Christendom, have a spoiler marching through our tilled meadows, of whom no one knows the origin or the history—a disease, in fact, as to whose cause or cure the world is in absolute ignorance—we may not inappropriately mention in this place, what has appeared to us a some-what strange coincidence, that the spread and virulence of the disease what strange concatenes, that the spread and virule of the disease in question, corresponds with the introduction of guano as a manure. The constituents of that peculiar exotic, we cannot accurately state; but, from the manuer of its deposit, believe it to contain the salts of lime, and of ammonia, in abundance; the highly stimulating property of these bodies, or of the gases evolved from them by the heats of summer, would, to the lower class of edibles, give that morbid fecundity, which results in disease. It is remarkable, too, that the fruits having their vascular systems largely developed, and much water in their cavities, such as turnips, onions, potatoes, and others, have been the greatest, if not the only, recipients of the infection. We do but humbly suggest this for the consideration of the learned in vegetable physiology; and granting that the new disease and the new manure have no relation whatever, we still point to the singular fact, that their presence to this extent in Europe is contemporaneous. Again, the utility of chemical knowledge in treating the produce of metallic mines, cannot well be over-estimated; and, on that account, the establishment of local schools for teaching mineralogical chemistry, to each of which should be added a chair for inringical chemistry, to each of which should be added a chair for instruction in geology, may be insisted on as essential to the well-doing of a great mining community. The metals have, in all ages of the world, excited the liveliest attention, and engrossed the most sedulous labour of mankind. Without them, the arts and the conveniences of life—the progress of society—the independence of nations—would have been fearfully checked and interrupted; and yet their treatment, whether in the matrix in the heds in which they

their treatment, whether in the matrix, in the beds, in which they were deposited by the Creating hand—or, when they come into furnaces and test-houses, where they receive their final manipulation—is far from being a perfected species of handling.

Under present circumstances, it can scarcely be otherwise than as it is; but when institutions for the instruction of the captains, and for all whe will resert to them are reject on, and in prost, to for all who will resort to them, are raised up, and in operation, there is little reason to doubt, that the mines of England will, as a whole, be worked with greater economy, and for greater productiveness. We are pleased to see that both as to mining and agriculture, we are come to the dawning of a better era; and that these works of peace, these ancient pursuits, are likely to have shed upon them the

We understand that a splendid seam of coal has been met with in the celebrated Monkwearmouth Colliery. Some interesting particulars, respecting which, we hope to give in our next Journal.

light of the auxiliary arts.

Apparatus for Preventing Dangerous Consequences from Col-lision on Railways.—Mr. E. Cheshire, of Birmingham, has patented an apparatus, by which, should a collision take place, the concussion will be immediately transferred from the engine or tender, in front, to a luggage immediately transferred from the engine or fender, in front, to a luggage waggon placed in the rear, or from the latter to the former, should the concussion take place from behind. The invention consists in the application to each passenger carriage of a train, of a safety buffer, in addition to the ordinary buffers; this safety buffer consists of a rod, with a buffer head at each end, mounted in bearings, carried by the under framing of the carriage, so as to be capable of moving endways in the same, and made of such length, that, when the ordinary buffer heads are in close contact, the heads of the safety buffers will be at short distances apart, and only be brought into contact by collision, when they will form, as it were, one firm unyielding bar, and transmit the shock from the van, which first receives

it, direct to the van at the other end of the train.

Gerar Collers' Merting.—A meeting of the coal miners of Hindley and surrounding districts, was held near the Lord Nelson Inn. On the arrival of the procession from Wigan, which escorted Mr. W. P. Roberts, the "atterney-general," to the spot, Mr. John Berry was called to the chair. The meeting was addressed by Mr. Holgate and Mr. David Swallow, from Yorkshire, Mr. Wolsby, from near Halshaw Moor, and W. P. Roberts, Esq. In the course of the proceedings, the following resolutions were unanimously agreed to:—The abolition of riddles in pits, in order to afford more honourable dealings to the miners; and that a greater restriction of labour is necessary than at present prevails. Considering the size of the village, the meeting was numerously attended—there being not less than between 2000 and 3000 persons present.

CAUTION TO RAILWAY PROVISIONAL COMMITTEES, DI-RECTORS, AND PROMOTERS

[FROM A CORAES

I take the liberty of drawing the attention of yourself, and of the readers of your valuable Journal, to an Act of Parliament, which was passed in August last, infituled, " An Act for Constituting Commissioners of Railways." This Act empowers the Crown to appoint five railway commisners. Part of their duty is to inquire into, and report to the Crown upon, any subject relating to any railway, or proposed railway, which shall be specially referred to them for their opinion by her Majesty, or by either House of Parliament; and if it be a proposed railway, into which they are to inquire, they are directed to report on local inspection, or otherwise, on the following points:--

1. Whether there are any lines or schemes competing with the proposed railway .- 2. Whether, by such bill, it is proposed to take powers for uniting with such railway, or proposed railway, any other railway or canal, or to purchase or lease any railway, canal, dock, road, or other public work, undertaking, or easement .- 3. Whether, by such bill, it is proposed to constitute any branch railway, or an other work, in connection with the proposed railway.-4. Whether any plans, maps, or sections, of any proposed railway, which, pursuant to any order of either House of Parliament, shall have be deposited in their office, are correct; and, if not, in what particulars, and how far they are incorrect; and whether or not, in the opinion of the comsioners, such errors, as they shall find, are material to the object for which such plans and sections are required.

The Act then gives power to the Commissioners, to inspect and survey any proposed line of railway; and then it provides, that the expenses incurred by the commissioners in making such survey, and inspection, shall be paid by the provisional committee, or the promoters, of the intended railway; and, until the same be paid, the amount shall be a specialty debt due to her Majesty, from the committee-men and promoters, and each of them severally, and shall be sued for and recovered accordingly.

You will see, Sir, I have no doubt, that the working of this Act of Parment must necessarily increase the liability of every gentleman, who becomes provisional committee-man, or promoter of a new intended railway company. In addition to the enormous preliminary expense necessary to be incurred in making surveys by engineers on the part of the promoters, the promoters will also be liable to the payment of the same expense over again, for the surveyors appointed by the commissioners to act on their part. But the evil does not stop here; for, if the charge made by the commissioners, under this Act, for their survey, be not paid, when demanded, it may be recovered, as a specialty debt due to the Crown, from any one of the promoters—so that every one of such promoters becomes liable (in case of such non-payment happening) to have an extent issued against his property for the alleged amount of the commissioners' expenses, of making the statutable urveys .- E. H. P. : Oct. 15.

NEW SHARE AND MONEY MARKET, ROYAL EXCHANGE.—The losses hich accrue to private capitalists and speculators in dealing in the share and scrip market, under the present system, has long been matter of serious complaint by both buyer and seller-the jobbers, on either side, taking advantage of the range of quotation, buy at the lowest, and sell at the ing advantage of the range of quotation, buy at the lowest, and sell at the highest, figure; and thus secure a profit which, in the numerous schemes on which the deposits only have been paid, absolutely often amounts to more than the price obtained for the share; while, had the principals met and dealt together, they would have arranged the price, and each been a considerable gainer; this, however, is, in a great measure, proposed to be remedied by the establishment of the New Exchange. We may observe, that Messrs. Stevens, Hansard, and Co., having opened a Transfer Register Office, where parties can deposit their scrip had share certificates, with the price they wish to obtain affixed thereon; and buyers can either choose from the lists in the register, or leave a statement of the shares they require, with the price they are willing to give. Buyer and seller will, by these means, effect their mutual objects; and, in every case, obtain more satisfactory results. We shall watch the progress of this novel establishment, and from time to time notice the results.

AIRNE'S NEW MODE OF PROPULSION ON RAILWAYS.-We have reed a paper, with diagrams, descriptive of a novel mode of propelling carriages on railways, the invention of Mr. W. Nairne, of Milnhaugh, near Perth. It came too late to do it justice this week; we shall, therefore, give an idea of the principle, and enter into a more detailed description in our next. He proposes to lay along the whole length of a railway an iron tube, 8 in. in diameter, with stationary engines, or water power, at every 10 miles, to cause a partial vacuum. At every 100 or 120 yards are to be fixed horizontally cylinders, fitted with a piston and valves, similar to those of a steam-engine; these cylinders are in connection with the continuous tube, and when the pressure of the atmosphere is allowed to act on the piston, a continuous motion is obtained. Exactly in the centre of the two lines of railway is placed a horizontal wheel, of such diameter that its outer edge comes within 1½ in. of the centre of each line; outside of this another smaller wheel is placed on each line, and acted on by the centre one; they are all rebated on the outer circumference, forming a groove at the point of contact 2½ in, wide—the small wheels being on moveable axes, working on a powerful spring, so as to admit a substance wider than 2½ in, passing between. At the bottom of the leading carviage is what the patentee calls a keel—being a long bar of hard wood, of sufficient width to pass just tightly between the above wheels—which, being set in motion by the cylinders, or propelling engines, carries the train at rapid speed, and acquires momentum sufficient to carry it on to the next set of wheels, when the connected propelling engine carries is on as before. This is the principle of the invention; and in next week's Journal we shall give a full description of its mode of working, with calculations of cost and construction.

We have been informed that mines of sulphuret of zine have lately been Perth. It came too late to do it justice this week; we shall, therefore, give an

We have been informed that mines of sulphuret of zine have lately been covered in Cumberland, and a company is being formed to work them.

discovered in Cumberland, and a company is being formed to work them.

GLASS FOR OFTICAL PURPOSES.—The manufacture of optical glasses, exempt from minute bubbles, or streaks, and to produce them perfectly free from irregularity, and thus capable of refracting the rays of light in straight lines, has, for some years, been the particular study of M. Lucien Pellotier, or Paris, who, as long since as Oct., 1843, announced to the Academy of Sciences, at Paris, that he had perfectly succeeded. After a three years' residence in America, he has returned, and last wack presented a paper to the Adademy, descriptive of the process, and containing testimonials of its efficiency. The best flint glass is composed of white or pure silicious sand 240 parts, carbonate of potash and lime being composed of 18 parts carbonate of potash, and imposed of 18 parts carbonate of potash, and 6 lbs. of hydrated protoxide of calcium, are well mixed, and diluted with warm water; it is then placed in a tob, with an orifice at bottom, and filtered through straw; when the lye reaches 17° of Baumé's aerometer, the water is then evaporated, said the crystalline salt calcined, when a highly causic alkaline salt is obtained. When the ingredients have been melted into glass, and again become, cold, it is reduced to a fine powder in an agate mortar, which is passed through a very fine sieve, fused a second time, reground, and again fused; the glass is then generally free from blemish; but, should any air bubbles remain, 6 grammes of spongy platinum, in powder, is mixed again with the pounded glass, which is then again remelted, when a most pure and perfect flint glass is produced, fit for all optical purposes.

Pateur Fixed Metallio Broocher.—Mr. Depledge, of the Phorneliffe

glass is produced, fit for all optical purposes.

PATENT FIXED METALLIC BROACHER.—Mr. Depledge, of the Thorneliffe Iron-Works, has taken out a patent for an improved broacher for tapping easts, by which the operation may be effected in an instant without spiling any of the contents; it will close the cask air-tight, and prevent it from becoming mouldy, after the fluor has been withdrawn; and it is impossible, when the broacher is closed, and sealed, for any person to withdraw any portion of the contents without detection. It cannot be very well described without a diagram, but consists of the broach, which can be instantly scrowed into the cask, or other vessel, and may be then sealed; a peculiar tap is made to fit this broach, which can be instantaneously applied to it, and may be removed when sufficient liquor is drawn, and the broach will immediately close; or it may be left, and used with a key in the usual manner.

# PROGRESS OF FRENCH MINING INDUSTRY.

Some attention is being paid to mining matters in Spain, and it is pretty generally believed that that country presents a magnificent field for enter prise. A company is now being formed with a capital of 4,000,000 france (160,000L), for working the lead and copper mines at Linares. The shares

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are of 40% each.

The "forges et fonderies" of Carcay, in Valençay, in the department de l' Indre, are advertised to let.

The newspapers mention that the Pope, having caused to be sent to Paris for examination some iron ore of Monte Leons and Gravelli, it has been found to yield from 30 to 40 per cent. of iron. The ore of Tolfa yielded 60 per cent, which is 10 per cent more than the far-famed ores of the mines of Elba.

An association for the premotion of functions.

Paris for examination some iron ore of Monte Leons and Gravelli, it has been found to yield from 30 to 40 per cent. of iron. The ore of Tolfayielded 60 per cent, which is 10 per cent more than the far famed ores of the mines of Elba.

An association for the promotion of free trade has been formed at Havre—but it declines to go all the length of the Parisian association. The Havre free traders think that, instead of attacking the existing monopolies altogether, it would be better to single out the greatest of them—that of iron—and endeavour to develope it first of all; and on the accomplishment of that, to take in hand the others. They say that Gobden, and his associates, did not attack all monopolies,—but confined themselves to an onslanght on the Corn Lava. There is a great deal of selfahness, no doubt, in the Havre free traders wishing the free trade crusade to be confined exclusively to the monstress monopoly on iron, for it weighs heavily upon them as shipowners—whilst in many other monopolies they have an interest either direct or indirect. But, notwithstanding this, I am very much inclined to think, that it would be sound policy for the free trade partisans to content themselves for the present with following the course indicated by the Havre people. The iron monopoly weighs upon every trade, every oncapation, every class, every individual. It takes something from every man's pocket, and completely ruins the shipping interest. Attack it thon, and it only, and you would see all classes, all industries, leagued against it. A storm of reprobation, so strong, so terrible, might be raised against it, that it could not possibly resist. The little knot of individuals who benefit by it, could do nothing against the whole nation. But when the free trade leaders break their lances against all protection to native industry, thich has any real or fancied reason to dread foreign competition. Thus, they have to fight, at the same time, against the linen manufacturers, the colowners, the ironmanters, and then, but not w

mand for that article, with scarcely any perceptible increase in the domestic supply, will, before long, become a matter of anxious solicitude to the Government of this country.

Week after week is wearing away, and yet nothing occurs to show that the Government has any intention to alter the present monstrous duties on iron. It talked about the matter a little while ago, but the talk (as most people expected) ended in nothing. This is a scandalous shame. The shipping interest is in a most cruelly depressed state, and is galloping headlong to total ruin. Nothing can save it but a free admission of foreign iron, and yet not the slightest concession is made to it. As to the other interests, affected by the ironmasters' monopoly, they have, I think, as much chance at present of obtaining relief from the Minister of Commerce as they have of obtaining the moon from heaven. The Minister is represented to be a well-meaning man in his way. Unluckily, he has the misfortune to be at the head of a cloth manufactory; and, as a cloth maker, he loves monopoly right dearly. The desire to keep up the monopoly on cloth has, no doubt, great effect in inducing him to maintain the duty on iron; for although he has no great reputation for intellect, he has sense enough to fear that, if he once gave the people cheap iron, they would soon clamour for cheap cloth.—Paris, Tuesday.

The Electric Light.—A patent has been secured by Mr. W. Greener, of Birmingham, and Mr. Staite, of Peckham, for an improvement in the means of obtaining light from electricity. Carbon and platinum are here employed after the manner of King's patent; but the patentees state, that carbon in general gives out various extraneous matters, which interfere with the continuity of the light, and darken the glass vessel by the deposit on the same; and from plane surfaced platinum, only a feeble light is obtained: they, therefore, digest lamp black, or pulverised coke, in nitromuriatic acid, strain, and repeatedly wash, and finally form it into cylinders, or prisms, by a hydraulic press, and then bake in an intense heat for 24 hours. Numerous acute points are then formed on the surface by means of a saw, or by casting them in suitable indented dies; and these accuminated surfaces maintain a steady light, without abatement. In some cases thin strips of charcoal, soparated by platinum foil, and bound together with platinum wire, are used; and when platinum or other difficultly fusible metal is employed, as many points are formed upon the surfaces as possible; and the patentees claim these rough surfaces, the purifying of carbon, and the joint use of carbon and platinum.

Apparatus for Supplying Steam-bollers.—Mr. John Lord, of Bir-

APPARATUS FOR SUPPLYING STEAM-BOILERS.— Mr. John Lord, of Birmingham, has obtained a patent for a perfectly self-acting apparatus, for supplying water to steam-boilers: it consists of a hollow spherical chamber, connected by two pipes with the upper part of the boiler, and by another with the pipe leading from the cistern of the well, whence the water is obtained—these all terminate in a box hinge joint, and the weight of the chamber full of water is just counterbalanced by a weight attached to a cord counting over nulleys. There is a small cock on the top of the a cord running over pulleys. There is a small cock on the top of the chamber to let out the atmospheric air, on commencing to use the apparatus. Upon the fall of the water line in the boiler, steam will pass from the boiler along one passage into the space of the standard of the water line in the boiler, steam will pass from the boiler along one passage into the space of the standard of the stan the water through the other passage into the upper surface of the chamber, and drive the water through the other passage into the boiler: the chamber this being lightened will be drawn up by the weight, which cuts off the communication with the boiler: as the steam condenses, a vacuum is formed, and water rushes up from the cistern, and fills the chamber, being prevented from returning by a valve; the chamber then descends by its weight, opens the passage to the boiler, and the operation is repeated as before, and the boiler can be thus regularly supplied, without the aid of a pump.

Mineral. Wealth in New Jersey, U.S.—Although no State for its size has more colleges and seminaries of learning, or bears a higher character: for national fidelity in trying times and enterprise, than New Jersey, yet it has in a measure neglected proper geological surveys, and is full of mineral riches, chiefly copper and zine. Her zine mines have been known for nearly a century, though until recently their value has not been made known. The principal deposit is 4 to 6 ft. thick, about 600 ft. in length, and could be explored easily to the depth of 100 ft., containing ore worth not much less than two millions of dollars, at the present market price of metallic zine.—American Sun

NUMBER OF MINES IN THE SEVERAL MINING COUNTIES.

It would, doubtless, be a work of considerable difficulty to obtain an exact eturn of all the mines in the kingdom; but the following list, however, in round numbers, may be taken as a near approximation to correctness:-

IRON TRADE OF SCOTLAND. Our correspondent, to whom we are indebted for much valuable information, in forwarding the accompanying, says-" I now inclose a few additional particulars of the iron trade of Scotland, as it at present stands, for insertion in your Journal, which, I am sure, are very nearly correct: this will be followed, in a short time, by a detail of our malleable iron-works, after I have personally visited them all. I would direct your attention to the East of Scotland Joint-Stock Mallaable Iron Company [see Mining Journal of 26th Sept.], who intend to build works at Dunfermline, Fifeshire: report says, that the pig-iron made at Forth Iron-Works, near Dunfermline, is very well adapted for making bar-iron; but I will make more minute inquiry, and let you know. I understand all the shares have been applied for, principally by Fifeshire people, and are to be allocated this week."

EXPORTED in 1844 Tone 62,488
in 1845 54,571
in first six months of 1846 54,071
coastwise, during same period 115,472
in 1845, from Glasgow 30,563
in 1845, from Liverpool 24,105 AVERAGE PRICE OF No. 1 PIG-IRON, NET CASH, FREE ON BOARD AT GLASGOW.

| TREE ON BOARD AT GLASCOW | 1844. | 1844. | 1844. | 1844. | 1845. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1846. | 1 Price, or average ...... £2 15 6 £3 16 0 EXPORTS OF PIG-IRON. Jan 1 to June !

Countries. Tons

. Both together ...... Tons 169,549 Computed make in 1845 ..... Tons 400,000

1750 to 2000 tons consumed weekly in Scotland for malleable iron.

SALES OF COPPER ORE, AT SWANSEA, FROM THE MINES OF IRELAND.

FOR THE QUARTER ENDING SEPT. 30, 1846. Mines. No. Ticketings. Tons. 

INVENTION OF THE SAFETY LAMP, THE CLANNY TESTIMONIAL.—In OUR dvertising columns will be found the appeal of the Sunderland committee for obtaining subscriptions for the purpose of presenting to Dr. Clanny a testimonal for his exertions in endeavouring to prevent the deplorable loss testmonal for his exertions in endeavouring to prevent the deplorable loss of life in collieries, by his invention of the safety lamp, and his continuous investigations since, at considerable pecuniary sacrifice, to improve the lamp, and render it a safe and certain antidote. We have, on various occasions, alluded to the fact of Dr. Clanny's steam lamp having been the first attempt to keep the flame out of the influence of the fire-damp; and, as aunounced in the advertisement, subscriptions will be received at the Mining Journal office, 26, Fleet-street, and all communications forwarded to that address will meet with every attention. We have been requested to make the following addition to our last notice on the Clanny lamp:—

"That his steam safety lamp was the first self-feeding lamp over put to use on that principle; and for the said safety lamp, Dr. Clanny had the honour of receiving the largest gold medal of the Society of Arts, in London, and which discovery is by many years anterior to the recent so-called discovery of a French gentleman—viz. the overcoming gases of mines by the medium of steam." It is worthy of remembrance, that explosive atmospheres, such as we find in the English coal mines, are rendered harmless when they are, in transitu, mixed with steam, as was well verified in Dr. Clanny's abovementioned steam safety lamp; for we have learnt the following fact—that, in the steam safety lamp (which, many years ago, was employed in some of our most dangerous coal mines), its apertures were at least one-eighth of an inch in diameter, and which, in safety, might have been still more onlarged. In this safety lamp the flame was uniform and bright, and continued very steady till the oil of the oil lamp was consumed; there was no soot, nor foul accumulations. In the lapse of time these facts are, probably, lost sight of—yet they may, even now, be put to use upon an extensive scale, in order to get rid of the industrious pitfnant's greatest enemy—fire-damp. We need hardly add, we wish the committee every of life in collicries, by his invention of the safety lamp, and his continuous

THE METALLURGICAL TREATMENT OF ORES .- No. X. TREATMENT OF THE ORES OF SHAVE

Silver has been known from the earliest ages of civilisation, doubtless, maccount of its occasionally occurring in the metallic, or native, state. From the ores, in which this metal is found in a state of chemical combination, it can be readily extracted by means of repeated reastings, which free it from the substance, or substances, with which it was combined; hence it can be readily conceived, that even preliminary trials would enable us to extract a portion of the contained silver-in a slovenly way, it is truebut, nevertheless, in such a manner as to produce comparatively profitable returns from rich ores. In some workings, silver is obtained as a secondary product; in others, it forms the principal object. The ores, which furnish silver as a secondary product, are the argentiferous sulphurets of lead, and the argentiferous copper pyrites. In such cases, the ore is termed silver-lead, or copper ore; but when the proportion of silver considerably increases, the ore is termed silver ore. Silver occurs either native, or in combination; the compounds which this metal forms are very various. Native silver affects many forms—sometimes is crystallises in regular cubes, or octohedra; sometimes in dendritic, or twisted fibres; and sometimes in masses, or grains, of various sizes. Some of these masses have occurred of such a size, as to weigh from 50 to 900 lbs. Sulphurst of silver and

masses, or grains, of various sizes. Some of these masses have occurred of such a size, as to weigh from 50 to 200 lbs. Sulphuret of silver, antimonic-sulphuret of silver, antimonic-sulphuret of silver, antimonic-sulphuret of silver, and chloride of silver, are the principal ores which, either in a state of purity or mixture, furnish our supplies of the metal in question. The ores of silver are generally found in the primitive formations, and commonly in fissures of the micacous rocks. The secondary formation also contains silver ores; but they are generally native silver, and not its compounds.

Various processes are employed in the treatment of silver ores; but they may be all reduced to one simple principle—viz.: the formation of an alloy of silver with some other metal, which alloy shall be very fusible, and so heavy, that it may be readily separated by subsidence from the earthy matters with which the silver was mixed. The metal commonly employed is mercury, and the process constitutes the method by analgamation. The amalgam of silver, being fusible at ordinary temperatures, can be readily collected without heating the mass, and, from its great specific gravity, amalgam of silver, being fusible at ordinary temperatures, can be readily collected without heating the mass, and, from its great specific gravity, can be readily separated by washing. The amalgam is then submitted to distillation—the mercury, the proper variety of the silver off—and the silver alone remains in the distillatory apparatus. In spite of the high price of mercury, this method seems to be the most advantageous, when poor ores are worked. Sometimes lead is employed. The alloy of lead and silver is fusible only at a high temperature—hence the whole mass of ore and lead must necessarily be heated; the alloy thus produced runs out of the mass, and is collected. The silver-lead thus obtained is then submitted to a refining process, which separates the lead as oxide (litharge), and leaves the silver in the metallic state. This method can only be employed for very rich ores, especially those in which native silver predominates. An operation, which is made the basis of a third system of working, is known under the name of the concentration system. It has for its end the concentration of the silver contained in the ore to the smallest possible volume. It consists in a fusion with iron pyrites, by which fusion the pyrites added forms a fusible matt, in which all the silver in the ore collects—this matt, separated from the slag, is submitted to an ulterior treatment for the separation of the silver. There is yet another method in which the ore is roasted, so as to obtain either a sulphate of silver, or a chloride of silver; these are subsequently dissolved from the roasted mass, either by hot water or a because of salt and the silver is obtained family from these selvations. We

a fusible matt, in which all the sirver in the ore collects—this matt, separated from the slag, is submitted to an ulterior treatment for the separation of the silver. There is yet another method in which the ore is reasted, so as to obtain either a sulphate of silver, or a chloride of silver; these are subsequently dissolved from the roasted mass, either by hot water or a hot solution of salt, and the silver is obtained finally from these solutions. We will examine these methods in succession. The process of amalgamation may be divided into two classes. The one comprehends the method employed in Europe—the other that in use in the American mines. Various mixed methods are also employed, which agree more or less with the two principal ones, which we shall carefully study.

Treatment at Freyburg.—The operations conducted at Freyburg are the following:—1, a sorting and suitable mixture of the ores employed; 2, roasting the above mixture, with the addition of east; 3, sifting the roasted mass; 4, grinding the sifted ore; 5, amalgamation; 6, decamation of the amalgam; 7, filtration of the amalgam; 8, distillation of the amalgam; 9 fusion of the silver; 10, refining the silver; 11, washing the residual matters. We will examine the various operations in order, as regards them in a practical light, and as viewed theoretically.

1. Sorting and Suitable Mixture of Ores.—The ores treated at Freyburg, by the amalgamation process, are known under the name of poor ores; they contain little or no lead. These ores are divided into two varieties—those which contain no pyrites, and those mixed with iron pyrites. The ores containing lead or copper are excluded from this method of treatment. It is very rare, however, that the ores so worked do not contain traces of copper. The best richness for working is about 76 ozs. of silver to the ton of ore. It has been found by experience, that, if the ore be richer, the residual matters from the amalgamation are too rich, it, if the ore contain less than about 50 ozs. to the ton, it does the silver into chloride of silver, the ore to be roasted is mixed with common salt. Numerous trials have proved that 10 per cent, of salt produces the most advantageous results. The complete mixture of the ore with the salt is effected by passing them through a sieve—this mixture is made in the "preparing rooms;" above these rooms are the salt stores. To palverise the salt, it is placed in wooden boxes with conical bottoms, which pass through the ceiling of the room; this bottom can be opened and closed by means of a sliding door. Above these boxes are suspended iron sieves, upon which the salt is thrown, and on which any compact masses that may be formed are broken up. In each box a certain weighed quantity of salt is placed; it then falls into the mixing rooms, on the floors of which part of the mineral is spread; the salt is then placed evenly upon it, and above that again another layer of ore, and another layer of salt, until the requisite quantities have been employed. The ore and salt are then passed through a sifting machine, and the produce divided into 10 heaps, which are termed the roasting heaps.

which are termed the roasting heaps.

Roasting.—Below the mixing rooms are placed the roasting furnaces They are reverberatory furnaces; the principal parts of which are—1, the fire-place, with bars and ashpit; 2, a hearth, on which the ore is roasted; fire-place, with bars and ashpit; 2, a hearth, on which the ore is roasted; 3, condensing chambers, through which the vapours escaping during the roasting pass, and where a portion of very finely divided ore, which has been carried away by the draught, is deposited; 4, a chimney, by which all incondensible vapours pass off. A charging aperture is placed in the roof of each furnace, from whence it passes into the mixing rooms, where it is provided with a cover. The principal furnace opening is in the front, and it is there where the ore is worked by the aid of long iron instruments, which, in order to facilitate their use, rest upon a cylinder of iron in part of the furnace, which cylinder turns upon an axis. The instruments employed by the workmen are—1, an iron rake or rable; 2, a stirring shovel; 3, an assay spoon. The fuel employed is coal. To commence a roasting, the workman entrusted with this employment throws upon the furnace-hearth, by means of the tube above described, one of the hear and of ore upon the floor of the mixing room above. It is spread evanly, and any humps, which may form by the action of the heat employed, exceudily broken. At first such a fire is kindled that is just sufficient to dry the ore, and cause the salt to decrepitate—during which time the workman stirs, the whole mass with the before-mentioned iron rake. This time is termed the commencement of the roasting. When the ore catches fire, which is generally in about an hour, the fire is diminished (the inflammation of the ore is owing to the sulphur contained in the iron pyrites); at this time the whole mass is red, and appears fluid. During this time it is necessary to constinually turn and turn the ore, in order to prevent the formation of lamps. The following transformations now take place—the sulphur of the pyrites oxidises, forming sulphurous and sulphuric acids, which last acid decomposes the common salt added previous to the roasting, with the formation of sulphate of soda; the chlorine of the salt thus decomposed combines with the silver in the ore, giving rise to a chloride of that metal. Oxides and sulphates of copper and iron are also formed. The roasted ore also contains unaltered earthy matter. The third, and last, period of the roasting commences when the surface of the ore begins to cool, and the formation of sulphurous acid gradually diminishes. During this operation the whole, or at least 85 per cent., of the silver contained in the ore is converted into chloride. If the ore were roasted without the addition of salt, half of the silver only would be converted into sulphate of silver. (These remarks must be borne in mind, because they will be of much importance, when we consider the last cited process for obtaining silver from its ores by solution.) This mass is heated afresh, with continuous stirring, until a greenish grey vapour is given off, which smells of chlorine. If, on making an assay of this in the iron spoon, no smell of sulphurous acid is perceived, but only that of chlorine, it may be concluded the roasting is finished. Six hours are generally requisite for roasting a heap of 4½ cwts. It is clear, that the fewer lumps the roasted ore contains, and the more uniform and brown its colour, the better it is roasted. The ore, still in a state of red heat, is drawn from the furnace by means of the rake. The condonaing chambers are cleansed overy five months. There are the

which will not pass the bolter is re-ground.

4. The Amalgamation. Boxes, each containing 1 cwt., are filled with the finely-ground ore; they are then raised, by means of a crane, to the second stage, from thence they are carried to a store-house. In this store-house are 20 boxes, each capable of containing 10 cwts. of ore. Immediately below is the amalgamation room, where 20 wooden casks, firmly hooped with iron, revolve horizontally on the axis by means of a water-wheel. Each cask has a bung hole, by which it may be filled, and each hole is closed with a bung, which screws tightly into the cask by means of an arched iron; each cask weighs about 14 cwts. All of them can be either set in motion, or stopped, by an appropriate apparatus, and each can be stopped separately, by removing one of the supports of the spindle by a screw. Each cask has a separate leather pipe from one of the chests above the amalgamation room, containing the powdered ore.

[To be continued in next week? Mining Journal.]

[ To be continued in next week's Mining Journal.]

PATENT MINE DRAINER AND WATER LIFTER.—We have before us a prospectus of a company, for manufacturing and letting to the adventurer a new machine for draining mines, quarries, &c. The capital is to so 150,000l., in 30,000 shares, of 5l. each; and estimating the number of mines of all descriptions in the United Kingdom at 2070, and machines to be used for quarries, clay pits, for farms irrigation, colonies, &c., at 1900—making a total of 3970—at an average rental of 10l, per month, the estimated profit, in the third year, will be 720,000l. We have not seen any description of the apparatus—consequently, we are not aware of the principle, whether it is entirely novel, or a new application of some of the pump systems; but it appears from the prospectus, that a 3-inch retort will raise 3600 gallons per hour; and, as doubling the diameter of the retort quadruples the cubic contents, we find that, according to this proportion, a 24-inch retort would discharge 230,400 gallons per hour. The prospectus describes the facility by which this machine can unwater mines; but, until we see the apparatus, it is impossible to say more on the subject.

NEWBRIDGE AND TAFF VALE COLLIERY.—In our advertising columns.

NEWBRIDGE AND TAFF VALE COLLIERY.—In our advertising columns will be found a prospectus of the above colliery, which is situate in the parish of Llanwonnow, in the county of Glamorgan. The property consists of 360 acres, in the centre of the well-known South Wales mineral basin, and held under lease for 31 years. It is 12 miles from Cardiff, and the Taff Vale Railway runs through it. There appears to be three veins or soams of coal—making, in the aggregate, an average thickness of 10½ ft., and capable of yielding 5,000,000 tons. The cost of raising the coal, we understand, will not exceed 6s. per ton; and thus, at the moderate charge of 8s. 6d. per ton, an annual profit of 7500l., by working one pit only, producing 200 tons per day, will be realised; but it being calculated that this amount of working would not raise one-third of the coal by the expiration of the lease, it is proposed to open at least two more pits, which would realise to the company, assuming the price above-mentioned to continue in proportion to the cost of raising, of which there is no reasonable doubt, in proportion to the cost of raising, of which there is no reasonable doubt, a clear profit of 30,000l. per annum. It is proposed that the colliery shall be carried on under the Cost-book System, the shareholders to be secured from all liability, except to the proportionate amount of their shares; and the lease and legal titles rested in trustees for the benefit of the proprietors. The entire capital required for working the colliery is 20,000l., in 2000 shares, of 10l. each.

GLYM COLLIERY.—Two shopkeepers of Morthyr, named I. Williams, and W. Jones, are likely to find an El Dorado in the Cwm Rhondda. In the neighbourhood of Cymmar, about four miles west of Newbridge, they have lately opened a colliery—the coal of which is of an excellent quality, and the rein 4 ft. thick.—Monmouthabire Merlin.

If affords us much pleasure in being able to recommend Markwick's patent opithems. The impermeable piline will be found to constitute one of the most available chest protectors over invented, and will no doubt prove an admirable auxiliary to the hydrogathic system, and an extremely useful application in cause of rhounantism, &c., &c., &c., -we have no healtation, therefore, in recommending it. The impermeable spangic piline is intended for applying warm fluids to the sartice of the body. The immense quantity of fluid it holds, and the great length of time it retains its heat, must reader it far superior to hot positives and functiation totals, for which it forms a very excellent substitute: it will, we doubt not, he greatly sought after by the profession and the public. These opithems are also admirably adapted for persons employed on railway stations, as well as travelling, for wharfs, &c.,—in fact, all these expected to cold and well.

CONSOLIDATED PATENT KAMPTULICON COMPANY.

ital £50,000, in £10 shares, paid in full, bear annum, with a molety of the pro-

Those proprietors who have not exchanged their original for consolidated shares, requested to do so previous to the meeting, advertised to be held on the 26th instan extensive foreign and other contracts requiring the resolutions of January last to be extensive foreign and other contracts requiring the resolutions of January last to be extensive foreign and other contracts requiring the resolutions of January last to be extensive foreign and the state of the contracts of the contract of the contracts of the contract of the contracts of the contract of the contract

# Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK. MONDAY ..... Great Eastern and Western Railway—London Tavern, at Two.
TURBDAY ..... Patent Galvanised Iron Company—London Tavern, at Two.
Scuth Maria Mine—Cornish Arms, Gunnis Lake, at Eleven.
Madrid and Valentia Railway—London Tavern, at One.

WEDNESDAY... Independent Gas-Light and Coke Company—London Tavern, at One Exeter, Yeovil, and Dorchester Railway—London Tavern, at One.

TRUBBLAT.... Birch Torr Mining Company—at the mines.

[The meetings of Mining Companies are inserted among the Mining Intelligence.]

CAMERON'S COALBROOK STEAM COAL AND SWANSEA AND

COMPANY.

general meeting of the proprietors of this comp Wednesday, the 14th inst., at their offices, 2, Moorgate street, City.

The first general meeting of the proprietors of this company was held on Wednesday, the 14th inst., at their offices, 2, Moorgate street, City.

JACOB MONTEFICHE, Eq., in the chair.

The advertisement convening the meeting having been read,
The CHAREMAN, in a few words, addressed the meeting as to the more immediate object for which the proprietors had been called together—that of receiving officially from the directors the communication that the Act of Parliament, authorising the company to construct a railway from the collieries of the company to Swansaca, had been obtained; such, however, would be better conveyed by Mr. Elderton (the solicitor of the company), to whom it was only due, to observe, as well as to the Parliamentary agents, and to Col. Cameron, more especially, the shareholders were indebted for the success which had attended their labours, despite the opposition with which they had to contend, and which he could assure the meeting was somewhat of a formidable character; however, they had achieved their object, success had attended their endeavours; and last, not least, he might, without egotism, advert to the labours of the directors, of which body he had the honour to be one, and their representative on the present occasion. He should be happy to afford to the proprietors present any information they might require, as regarded the state of the company's collieries, and the prospects which presented themselves, which, he was happy to say, were of the brightest character, but such had not been entered upon in the report to be submitted—the meeting being strictly confined to the provisions of the Act, as affected the railway. The solicitor would, however, fully explain the object for which they had assembled, and he should be happy afterwards to answer any questions which might be submitted, or to afford any information in his power.

The SECRETARY (Mr. Howden) read the report of the directors:—

formation in his power.

The SECRETARY (Mr. Howden) read the report of the directors:-

afterwards to answer any questions which might be submitted, or to afford any information in his power.

The SECRETARY (Mr. Howden) read the report of the directors:—

REPORT.

In accordance with the provisions of the general Act of Parliament for the regulation of railways, and of the special Act authorising the construction of the Swansea and Loughor Railway, the directors have convened the present general meeting of the shareholders at the earliest possible period; and they have now the satisfaction to amounce to them the passing of the Act of Parliament incorporating this company, and authorising the construction of their proposed railway, with the usual powers. The increasing supply of coal which the manager is new enabled to give, and the attention of the company's works, call upon the directors to give their best attention to the expediency of immediately constructing the railway, which, being only 41 miles in length, and, for the present, limited to one line of rail, they have every reason to believe it can be constructed, at a cost considerably under the estimate. The directors have to assure the shareholders, that their operations, in this respect, will be conducted upon the strictest principles of economy in the expenditure; and, at the same time, with a due regard to the interests of the shareholders, he of the company and that the directors of the east company and of the deed of settlement.

Mr. Eldernow briefly addressed the meeting, observing that it was virtually one of a formal character, being convened under a general Railway Act, passed for the purpose of regulating all railways, so as to enable the directors to report to the shareholders the result of the proceedings in Parliament, and furthermore to place them in a position of electing future directors. He proceeded to explain the particular Act of Parliament under which the company was incorporated, and which the

passed; which, in containant, as congammate the company on the seast of the directors and to himself.

Mr. Shallamore expressed the satisfaction with which he had heard the remarks of the chairman, and the explanation afforded by their worthy solicitor, to whom he considered the thanks of the proprietors were due, as well as to the directors, for the zeal they had manifested, and, more especially, to Colonel Cameron. He (Mr. S.) had never entertained a doubt as to the value of the property, nor the advantages which, after deliberate reflection, he considered they were entitled to expect—indeed, the information he had derived from parties who had visited the property, and the increased interest they had taken in the capital of the company, was the best assurance of its stability. He represented a considerable interest in addition to his own holding, among whom were many members of the Stock Exchange. On behalf of those who were absent, and not from any doubt which might arise in his mind, he begged to ask, whether some experiments were not being made by her Majesty's Government at this moment, to test the quality of the coal; and, moreover, he would be glad to be informed, whether he was right in assuming that measures had lately been taken by the directors to increase their force, and to prosecute the worlt with that energy and spirit which the undertaking merited; so, by an increased supply, to be able to meet the for:hcoming and increasing demand. The Chairman, in reply, observed that it would be, perhaps, satisfactory to the meeting, to hear read a letter received that day from Mr. Taylor, their manager; that general end and the property in the measures which had been pursued, and which, he was happy to say, promised well.

Mr. Howden (the secretary) proceeded to read a letter from Mr. Taylor, missed well.

periment, Mr. Howden (the secretary) would satisfy the hon gentleman, as to the measures which had been pursued, and which, he was happy to say, promised well.

Mr. Howden (the secretary) proceeded to read a letter from Mr. Taylor, bearing date the 12th inst., in which, after expressing his regret that his presence would not be required at the meeting, such being only of a formal character, as relating to the railway, he, Mr. Taylor, observed, "That the progress of the works for the extension of the mines, so as to enable me to work coal up to 2000 tons per week, affords unabated confidence in the success of the company's undertakings," and thus continues: "I received the board's directions on the 9th of September, to prepare plans, specifications, and advertisements, for contracts. All this has been done, and tenders and estimates have been obtained for the whole work at rather under my original estimates, and only wait the decision of the beard for my proceeding to complete the same. It may be gratifying to the meeting to know, that nothing has occurred, either in the coliery or otherwise, to alter the opinion I expressed at a previous meeting—that there is scarcely any limit, either to the quantity I can work from the mine, or to the quantity I can sell, when brought to Swansea."—Mr. HOWDEN proceeded to observe, that, as regarded the experiment referred to, it was true that the coal had been submitted to an experimental trial at her Majesty's Dockyard, at Woolwich, on Monday last; and that he had every reason to believe such to be highly satisfactory; but, as the directors were not in possession of the report from the Admiralty, and, moreover, as a further trial would take place in a few days, he did not feel hisself at liberty to enter further into the subject. The previous trials, however, made, and the present, as compared with other coal, fully warranted him in stating, that Canceron's starm coal would stand No. I as to quality, and, consequently, as to economy in its application, which is would afford t

DUFFRYN LLYNVI AND PORTHCAWL RAILWAY COMPANY.

DUFFRYN LLYNVI AND PORTHCAWL RAILWAY COMPANY. A special general meeting of this company was held at the Wyzdham Arms Hotel, Bridgend, Glamorgaushire, on Friday, the 9th inst., "for the purpose of taking into consideration the acts, proceedings, and transactions of the committee, since the annual general meeting, held in June, 1846, and especially for confirming an agreement made with the Llynvi Valley Railway Company, for the amalgamation of the two companies; and, generally, for transacting any business which could be brought before any annual general meeting held under the powers of the company's Act of Parliament; also, to declare a dividend fo the half-year ending 30th April, 1846."

Sir Digny Mackworth, Bart., in the chair.

The Rev. R. Knight having profested against the meeting, as improper and illegal—Mr. W. S. Bradley (the secretary) read the following

The Rev. R. KNIGHT having protested against the meeting, as improper and illegal—Mr. W. S. Bradley (the secretary) read the following

\*\*REFORT.\*\*

The committee of the Duffyn Llynvi and Portheawl Railway Company have smeh attisaction in reporting to the shareholders their proceedings during the past year. They have been engaged in an ardicous and expensive contest, which has terminated first an andicable and satisfactory arrangement. In pursuance of the resolution passed at a general meeting of the proprietors, your committee used their best exertions to curry out the important extension of the Portheawl Railway, under the title of the Glamorgan Central Michael and Railway. The fallure of that project is in a great measure compensated by the inportant extension of the Portheawl Railway, under the title of the Glamorgan Central Michael and great and great and great and great and great deal to the full accompisiment of the more extended scheme. The terms of this amalgamation are favourable to the sharcholders in the Portheawl Railway, the whole of the revenue being reserved to them until the Llynvi Valley line is completed; and greovision is made for the equitable valuation of the shares in the Portheawl Railway, to Rair they may be adequately represented when the capitals of the two companies are united. The revenue of the Portheawl Railway, continues to increase, that of the last montic (September) being 30 per cent. more than the average monthly revenue of the past year; and great additions to it will arise from the new works which have been cetabilished to the line, and the enlargement of the old works. It appears that the revenue for the half-year ending the 30th April last, was less than that of the preceding half-year. This was occasioned solely by two of the companies on the line having stocked at their works a large portion of their make of iron, which they are now sending down to the port; consequently the inceme of the company, after the 30th April, will be increased in the works a large portion of th

the half-year ending 30th April, 1846, as read to this meeting, in lieu of the annual general meeting usually heldin June, do approve and confirm the same."

Thanks having been voted to the chairman and directors, the meeting separated.

ROYAL MAIL STEAM-PACKET COMPANY.

On Thursday, a general meeting of this company took place at the London Tavern, to receive the directors' report, on the half year's workings ending 30th. June.—The chair was taken by Thomas Barno, Esq., who congratulated the proprietors on the favourable prospects of the undertaking.—Capt. Chappell, B.N., read the report, from which it appeared, that the directors had arranged with her Majesty's Government for an amended contract. The management and service of the vessels seemed to afford general satisfaction. Arrangements for transporting passengers and treasure across the lithmus of Panama, had been completed. Increased cabin accommodation had been given, in consequence of the increase of passengers. The sum of 50,763.4 as was now vested as an insurance account. The working account showed an augmentation over the previous six months of 38631.3s. 1d. in the expenditure; but there had been an augmentation in the receipts also of 10,8327. 181. Itd.—showing an increased surplus of 64691.15s. 10d. over the corresponding period of last year. The directors proposed an addition of 5s. per share: The disbursements for the half-year ending 30th June last, 17. 15s. per share: The disbursements for the half-year ending 30th June last, 17. 15s. per share: The disbursements for the half-year ending 50th June last, 17. 15s. per share: The disbursements for the half-year ending 50th June last, 17. 15s. per share: The disbursements for the half-year ending 50th June last, 17. 15s. per share: The disbursements for the half-year ending 50th June last, 17. 15s. per share: The disbursements for the half-year ending 50th June last, 17. 15s. per share: The disbursements for the half-year ending 50th June last, 17. 15s. per share: The disbursements for the half-yea

WESTERN GAS-LIGHT COMPANY'S WORKS, AT KENSAL-GREEN-

WESTERN GAS-LIGHT COMPANY'S WORKS. AT KENSAL-GREENSIR,—I have noticed, in the daily papers of yesterday, a letter from the Rev. Arthur
Gore Pemberton, evidently written with the view of pallishing the anjustifiable suppression of an amendment, duly moved and seconded, at a recent secting of the "minister, churchwardens, freeholders, leaseholders, and proprietors of houses and land in the district of St. John's, Konsal-green," held on the 5th inst., in reference to the above-named works. Had it been necessary to define the motive for this unwarrantable act, it could not be more absurdly exposed, than it is, by the writer of the letter; who states, as a reason for "the suppression," that "to mention an amendment " "would wear the appearance of boasting of a triumph," because it was negatived by a majority of 201. Surely no one can consider it wonderful, that a mind capable of giving this explanation, for oddiberate a departure from the ordinary mode of publication adopted by those was gree imported publicity to the whole proceedings of a public meeting, should conceive and assert, that, "unquestionably nothing could be more creditable, nothing more straight forward," than the course pursued by itself and colleagues on this occasion.

But the Roy. A. G. Pemberton is not content with simply essaying to deprive an unworthy act of suppression of all its "unquestionably" discreditable appearance; he goes turther; and, "as a proof of their (hinself and supporters) wish to act with forbearmed, states that "they did not publish the lotters" expressive of resistance. "I perhaps, owing to this ill-advised reservation, the rev. writer and chairman forgets, altogether, in sunwearied and uncerniting interruption to the mover of the amendment, while speaking in support of his motion, which at length compelied that gentleman's withdrawal from the moeting. He also omits to remark, that before Mr. Mawcell withdrew, he appealed in vain to his (the Rev. A. G. Pumberton's) sense of gentlemanly folling and "courtery, he is entirely

ing the chairman "To accove" from the room, any person who differed from him on whatever might require a chairman's decision, were prepared, and read, before the business of the meeting they were devised to control had begun? As a corollary consequence, ITEP PACE ITS SUPPRISED, that positiveness in point solds over in the room, and others, in official attire, about the premises, for the purpose, no doubt, of carrying the rev. chairman's forbearage; into effect whenever his mechaness spoke the mandate of expanison! I raily, This Formerson Ass.

I shall not waste further valuable space and time on this "got up" affirir. Public minded men, actuated by honest and honourable motives, will be able to appreciate rightly both the meeting and the parties who got it up. The matter, as it now appears, is placed, fairly and honesity before them. Let the public, therefore, judgo between those who oppose the Western Gas Light Company, because they are "endeavouring to establish works which was likely to be injurious to health," as their reverend expositor represents them, and the company who jo-pardise their capital in construction of works which they know can be rendered useless, cliner by an action at haw or by a bill of indictment, if a nuisance is thereby created.

I have the honour to be, Sin.

Your most obedient, servant,

Your most obedient, servant,

Your most obedient, actually and the house not hitherto read it:—

Mored by John Maxwell, Esq.; and seconded by George Wise, Esq.

"That the company having distinctly sended it has been established for the manufacture of a purer and more brilliant gas than is now in use, to be made upon an outlined new principle, which will not contain any of the subjuncted hydrogen, extends acid, and other noxious gases that more or less contaminate the gas now used in the metropolis; and, as the company, by the erection of works, and theneby jeopardising their property, afford the nost single assurance that they got will say, in assurance or in parious to hand or vegetation. BESOLVED,

acid, ther. of th The a har Whe

gunp a ran corre ing it then water

and I for the the country place span;

COMPOSITION OF THE GASES EVOLVED FROM IRON FURNACES.

A

A most elaborate paper was road as the meeting of the British Association (held at Cambridge, last year), on the above subject, from long-continued and carefully-conducted experiments by Dr. Lyon Playfair and Prof. Bunners, which are highly confirmatory of the previous experiments of Sherier and Lungberg. Germany. By these results, it appears the activated and the proposition which is at first passessed. The carbonic oxide actions its maximum about the middle of the furnees, and diminishes in a greater ratio upwards than downwards; the quantity of carbonic oxide actions its maximum about the middle of the furnees, and diminishes in a greater ratio upwards than downwards; the quantity of carbonic oxide actions in the control of the

Extosive Corrox.—Prof. Otto (of Brunswick) one of the discoverers of the means of rendering cotton explosive—which created such a sensation at the meeting of the British Association—thus describes his process of manufacture:—"In order to obtain explosive cotton, I steep is for half a minute in strongly-concentrated nitric acid, which I prepare by the distillation of 10 parts of dry saltpetre, and six parts of oil of vitriol. I then wash it immediately in water, renewing the water so as to get rid entirely of the acid, taking care to separate the portions which adhere too closely together. It is then dried, and the process is thus completed." The effects of this preparation have astonished all persons who have witnessed them. The smallest quantity of this cotton placed upon an anvil, and struck with a hummer, produces an explosion equal to that of fulminating mercury. When a light is set to it, it explodes like guapowder; and one with the effects of guapowder in much smaller quantities. The explosive coron is to be used precisely in the same way as guapowder. It is made up in a kind of plug, after which a wadding is introduced, as with guapowder, and over this a ball is placed, and all are rammed down with a ramod. The explosion of the capsule produces that of the cotton.—A portespondent also informs us, that the gua cotton can be prepared by steeping it for half-a-minute in funing nitric acid (rauchende sultpeter scure), and their press it between two pieces of glass; it is afterwards to be soaked in water for a short time, and, when dried, is ready for use.

Pass MENALEND CONWAY TUBILLAR BRIDGES.—The directors of the Chester and Helytical Ruitway Company entered into contracts on Wednesday the 1 this, for the construction of a great portion of the across the Meani Straits; to be called the Britannia Bridge. The Conway Bridge is to be completed and fixed in its place in eight months from the present time. The Conway Bridge is 400 ft. span; the Britannia Bridge 450 span. The groatest span of any sigid bridge hit

Instricte of Mechanical, Engineers.—A meeting has been lately held in Birmingham, at which it was resolved to establish an institution under the above title. There can be no deabt that it is greatly warried, and that a little exertion must make it aliks popular and useful. So that it is founded on a basis sufficiently broad and comprehensive, there can be no objection to its embraching overy department of mechanical science, although it is more than likely that railway engineering, and the improvements therein which are daily thrusting themselves upon public notice, will claim the largest share of attention. We leave the properties of the interest which are daily thrusting themselves upon public notice, will claim the largest share of attention. We leave the properties of the desire of every instructor to retain his own peculiar system, and which will encourage genius to burst. The etters which fixity and uniformity of gauge have been too successful in placing round it. Whatever engineers of particular railways may feel compelled to adopt as the groundwork of there studies and experiments, the expanding intellect of the country; cheered on by the attractive stimulant of emulation, will not permit itself to be conflined within the limits of the past of develope the wonders of the finite. While questions relating to the strength, form, and weight of rail, are under discussion, in argument as to their breadth upart can scarcely be prevented; now will not permit itself to be conflined within the limits of the past to develope the wonders of the finite. While questions relating to the strength, form, and weight of rail, are under discussion, in argument as to their breadth upart can scarcely be prevented; in any while outside of the country; cheeved on by the attractive stimulant of emulation, founded as it honourably has been by some of the headlong supporters of the narrow gauge, as likely to do more to obtain a self-thement of the question of she gauge than Parliament, the Ruilway Board, the press, or the travell

press, or the travelling public over could effect.

A Progress or Ramways. London to Abbedder in 1900.

A Progress or Ramways. London to Abbedder in 1900.

Scottish railways which have received the anaction of the Legislature, in the session of 1845, will be opened about the same time. Several will be partially opened in the ensuing spring, and affin little more than 12 months. The opening of the Scottish railways will make a very gress! and important addition to the railway communication of the country. It is a carious fact, that in menty every instance be railways now constructing on the other side of the Tweed will extend the communication in a northward direction, and may, indeed, be considered so many extensions of the great trunk lines of communication from London to the north of England. The Caledonian line, which will be upwards of 100 miles in length, is in effect a continuation of the Lancaste and Carlisle Railway, which is again a virtual extension of the Orest North Western. Where the Caledonian ands at this part of the Edithuring and Charleson, the Scottish Railway, which is again a virtual extension of the Orest North Western. Where the Caledonian ands at this part of the Edithuring and Charleson, the Scottish Railway, which is part of the Edithuring and Charleson, the Scottish Railway, by the Scottish Railway, proceeds 34 miles in a northern difference ton. The Scottish Railway is made at the Aberdeen line being about 50 miles in length, we skill thus have an untimicrorupted railway nommunication from Carlisle to Aberdeen, a distance of warry softman, which, with the Greet North Western, will make a continuous files of tomunication at the way from London to Aberdeen. In other words, an early size will, in little most thus, ye from London to Aberdeen. In other words, an early size will, in little most thus, ye from London to Aberdeen. In other words, an early size will, in little most thus, ye from London to Aberdeen. In other words, an early size will not to the other words, and the more thus, an

having trivelled the immense distance of 500 miles, reach Aberdose in time for supper.

STEET...-Three kinds of steel are now principally manufactured; baror blistered steel, shear steel, and cast steel. The bar or blistered steel is made by the process of commentation; this consists in putting bars of the purser malleable iron alternated with, layers of cliarcoal or soot into a proper furnace; the air being exactuly gazhaded, and the whole kept at a red heat so swerad days. By this process the carbon concidence with the iron, altering its fexture from fibrour to granular or crystalline, and rendering the surface blistered. The action of the carbon conscious fissures and cay tites in the substance of the bars, rendering them unit for tool-making, built they are condensed and rendered uniform by the operation of tilip—i.e., compression by a power-fal hammer, worked by machinery. Shear seed is made by breaking up bars of blistered steel firth lengths of about 16 in., and binding four or six of them together with a steel rod, and then heating them to a full welling heat; the surface being covered with fine clay or sand to prevent oxidation. They are then drawn out into a bar, hammered, officel, and rolled. In this state it is succeptible of a much fine polish, and is also more tenacious had malleable, and fit for making strong springs, knives, &c. Cast steel; which was first made by Mr. Hearissian, at Autereliffs, Shefield, in 1770, is made by melting blistered steel, casting it into togics and rolling it into bars. It this condition its returned in much more uniform, closes and finer grained. The illiferent degrees of hardness required for steel are given by the process called tempering, and then genching it underlying the soft-need by expositive these simply — Beckmann's History of Incentions, Discoveres, and Origins.

# AUSTRALIAN MINING COMPANY. Incorporated for the purposes of the Act 7 and 8 Victoria, cap. 110. No. 1, ABELAIDE-PLACE, LONDON-BRIDGE.

Incorporated for the purposes of the Act. 7 and 8 Victoria, cap. 110.

No. 1, ABELLAIDE. PLACE, LONDON - IRLIGIS.

SANUEL JAMES CAPPER, Esq., Chairman,
EDWARID HAGEN, Esq., Deputy-chairman.

W. T. Copeland, Esq., Alderman, M.P., 37, Lincoln's Inn-fields,
H. De Castro, Esq., 19, South-street; Illustury-sequence.

H. J. Enthoyon, Esq., 18, Moorgarit-street,
James Horne, Esq., 18, Mallan. Common.

B. E. Lindo, Esq., 3, Winchester-buildings, Winchestor-street,
John Masterman, Jun., Esq., Nichlaus-lance, Lordand-street.

Six Hyde Parkey, Bart., Melford Hell, Sugbury.

RECTEES.

JOHN CAPPER, Esq., 1, Addinde-Jance.

BENJARIN GRIERN, Esq., 48, Bassell-square.

FREDERIC MILDRED, Esq., Nicholas-lanc.

ADDITOSS.

Henry Backle, Esq., 39, Mark-lane.

George Palmer, Jun., Esq., 11, Hings Arms-yard, Coleministreet.

Conspiring of Managanary in Assertant in Australia.

George Palmer, Jun., Esq., 11, Hings Arms-yard, Coleministreet.

George Palmer, Jun., Esq., 11, Hings Arms-yard, Coleministreet.

George Palmer, Jun., Esq., 11, Hings Arms-yard, Coleministreet.

Conspiring of Managanary in August and Coleministreet.

George Palmer, Jun., Esq., 14, Hings Arms-yard, Coleministreet.

George Palmer, Jun., Esq., 18, Hings Arms-yard, Coleministreet.

Conspiring of the Managanary in August and Coleministreet.

Sexurany—George Edmund Hodgkinigh, Esq.

J. B. Monthelove. Esq.

BAYERS—Heart, Masterman, Teters, and Co.

Solicitors—Thomas Hanson Pode, Esq.

The board of directors hereby give Notice, that, in conformity with the infimation given at the immung general meeting, Held as above, on the 27th July last, an EXTRAORDINARY GENERAL MEETING of the shareholders will be HELD at the company's office, No. 1, Adelaide-place, Gondon-Hordinge, as a Turnsday, the 18th day of October inst., at Twelve etchest precisely, to receive the director's report; relative to the selection of a block, of 20,000 acres, of uniplus land in the colony.

MYORTAN'T TO ENGINEERS, MANUFACTURERS,

MPORTANT TO ENGINEERS MANUFACTURERS,
TRAILWAY AND STEAM-BOAT COMPANIES.

MOSSTER, W. & C. MATHER begin cold the attention of the ABOVE, PARTIES to their
IMPROVED REASTIC METALLIC PISTONS.

The PRINCIPAL SEATURE and ADVANTAGE of THIS DIPROVEMENT IS CO. 1. Its great REASTICITY and SELF-ADJUSTING PROPERTIES, which enable it to yield to any inaccuracy of the cylinder, whether eval or taper, and to move with the least

ach other.

3. It takes the LEAST possible SPACE, and is well utlapted for air and water-pumps
s it allows of a dargor water way, out of notices in section of a recommendation. se it allows of a starger water way can of no hold the BEST ELASTIC METALLIC Messes W. & C. MATHER rise conductor that it is the BEST ELASTIC METALLIC PACKING yes known, for the above reasons.

Alodels may be seen at the Salfort From Works, Manchester; at W. Barker's, engineer, Newton-Moor 4 and also at J. Mather's, engineer, Beaufort-ktreat, Chelses, London.

PATENT METALLIC SAND ON ENGLISH POZZOLANO

PATENT METAL LIG SAND on ENGLISH POZZOLANO.

— The PROPRIETORS of the METALLUCISAND, after many years' experience of its merits, confidently RECOMMEND its the attention of Engineers. Architects, Builders, and the public generally, as an invaluable article for HYDRAULIC and O'HER WORKS requiring great strength and durability.

In analysis, the metallic sandist very similar to the Intains Tozzolaro—the value of which, in all substitutions works, issee well known to engineers and architects is dut from its granular form, and the shartness of its angles, and the invested quantity of iron ticontains, the inetallic sand has been found more durable, and much cheaper than any other specific material at present in use.

From its chemical qualities itsorms, in admixture with line and commans and, a cessent, mortar, or concrete, of finity hadriess, and almost entire incompressibility; and from its adhesive and imporvious qualities, it completely and for ever excludes water. The insect it is exposed to the atmosphere, and to we and damy, the birder of anil more durable it becomes. In the formation of mortar and concein, it has been extensively used in the great turnels on the London and illiminations and literal parts. it is exposed to the atmosphere, and to wet and damp; the barder and increasing used in the great cones. In the formation of mortar and especies, it has been extensively used in the great turnels on the Lendon and Birmingham Hailway, in the foundations of the New Houses of Parliament, see, walls on the North Devon Railway, Clifton Henry oirs, and other works of importance.

As an external stucco, the metallic and cement is unaffected by frest or wet; in appearance it recembes the best Portland stone; requires, therefore, neither colonia more later, and a sentirely free from vegetative casely and blisters, to which Homan centent is liable.

Further information will be given, and specimens shown, on application to Mr. C. H. Dyer, 4, New Broad-street; and at the Metallic Cement, Whart, King's Foad Copposite Practicely, Camiden New Lown, Lendon.

ANALYSIS OF THE PATENT METALLUS SAND.

Silica.

Oxide of from \$2 Magnesia.

APAVELDED TRON TUBES FOR ARERS AND BOILERS.

APAVELDED TRON TUBES FOR STEAM BOILERS.

A. CAMBRIDGE STEAM BOILERS.

HANUFACTURE, TUBES under an eministed lecans from Mr. Richard Fromon, the patentee. These tubes are now very extensively used in the bullers of madice and foreign trust steatificaments in England and out of the continuous—are stronger, likeling from the work. They may be fixed in the bullers without a result of the continuous and are stronger, likeling from the work. They may be fixed in the bullers without fixed and to enable of the bullers without a continuous distance to be also contained row without additional trouble or expense. Address 42, Cambridge street, Crescant, Birthingham.

68, UPPER THAMES-STREET.

And Glamorgaushire.

E. B. ASHFORD, Pag, Babbary: Somersut.

ACTISC CONNETTE.

HENRY STRETTON, Beg., Ramsgare, Chairman.

of J. D. Home, Army and Nary Clab.

of J. D. Home, Army and Nary Clab.

Gilbert M Queec. Esq., Great Coram-street,

W Mairwaying Sloane, Seymour-st.

James Galeb Anderson, Bart.

(With power to add to their manber.)

Fred. William Hamilton, E.g., 28, Glounce of collect.

Res. Price, E.g., M. D., Tyne find, Great flored, Essex.

Capta T. C. Newton, Brattonserver, and Lugwarden, Herefordshire.

Thus, Givery Idapite, Esq., 26, R.S.A., J. Mastilew's place, Cambridge-heath.

Rev. C. Davies, Sandgate.

Major J. Mill, Giternsey.

Edward Sankey, E.g., Canterbury.

J. Johnson, Esq., Davies-street, Rerkeley-square.

R. B. Crotts, Esq., Hamilton-square, Birkenhead, Cheshire.

John Britten, Esq., Sashighall-street.

Lient, Chailes, M. Hill, B. N., Queer's-square, Bristol.

Henry Lyster, Esq., Spring-tolrace, Wandsworth.

Capt. Hippilley, Somerset-street, Cavendish-street.

Wm. C. O'Connell, Esq., Cpper Seymour-street, Fortman-square.

London and Gounty Bank; the London John-Stock Banking Company.

N. Crouch, heir, Maintibne-quase, Histonhead, Chelhrice.

John Britten, Esq., Randinghal-arcet.

John Britten, Esq., Randinghal-arcet.

John Britten, Esq., Randinghal-arcet.

John Britten, Esq., Randinghal-arcet.

John Competer.

John Gritten, Esq., Randinghal-arcet.

John Gritten, Esq., Randinghal-arcet.

John Gritten, Jo

veryed, and the bay as, the mouth of the harbour has been principled to be copable of refroyal, and is now and ally being removed; thus opening to rescele of the largest tomage,
one of the statest and shot commodous harbours in the world.

These are a few of the advantages affered to the fulfile by the projected line; and the
committee, injuriescel with the sease of the excellence and legitimacy of the undertaking,
and beaing their views upon ascertained dacts and undoubted evidence, feel themselves
warranted in offering to all applicants for clears the following conditions—wir. That no
party taking shares in the said company shall be inside (in case of failure of the company)
to a larger amount than 3s, per share, unless greater and shall be sanctioned at a general meeting of the shareholders called for that purpose : so that, in case the company fail
at any period of time prior to such meeting being called, the committee pledge themselves to return £1.17a, per share instead of £2.2s, and a proportionatally larger amount
in the account of the company, upon inspection, slow a less expenditure.

At the first general precting of the shareholders the committee will produce an account,
ingaed by the othicses, of the several same received by them on account of the company
thereby warranting to the shareholders, that the amount and approval.

To the Provisional Committee of the Bristol and Poole Harbour Railreay Company I request you will allot use shapes of 459 each, brithe above undertaking, a fally to the pure pocinis; and I agree to accept such shares as may be allotted as to ring above mentioned, and also to pay the deposit thereon, and to sign the Fall Sustantiant and as her lears' agreement, when required.—Dated the degree of the contract and as her lears' agreement, when required.—Dated the

THE : and the directors being empowered by the Deed of Settlement of The Quital for extension of the works, give Moles, that they are propagate is ALCELY BE ENDERS for LOANS, on DEBENTUIES, at 25 per cent interest.—The holders of the Senders will be performed by the Deed of Settlement of The Senders of the Works, give Moles, that they are propagate is ALCELY BE ENDERS for LOANS, on DEBENTUIES, at 25 per cent interest.—The holders of the Senders will be paid ball-yearly, at the company's officers of the transparence of th

THE TAFF VALE RAILWAY COMPANY are ready to RECEIVE TENDERS for a SUPPLY of WHUELS, AXLES, all sinces, and other RORWORK, used in the construction of coal waggons. Specifications and particulars has be obtained on application to the secretary, at the company's office, in Cardin, Cardin, Cardin, Oct. 12, 1846.

THE TAFF VALE RAILWAY COMPANY are ready to RECEIVE TENDERS for SAWN TIMBER, for 1900 COAL WAGGONS.—Speciations and parliculars may be obtained on application to the secretary, at the company fine, in Cardiat.—Cardiat, Oct. 12, 1849.

ALEDONIAN RAILWAY.—TWENTY-FIVE POUNDS SHARES.—The directors have been described that the TWENTY-FIVE POUNDS.

SHARES.—The directors hereby give notice, that the TWENTY-FIVE POUNDS SHARES, in the CALEDOSIAN RAILWAY COMPANT, are now in COURSE of BE-GISTRATION; and they request these parties who have not yet forwarded their strip, to do so without delay.

By order, 3. BUILLER-WILLIAMS, Secretary, 129, Princes-street, Edinburgh, October 1, 1846.

TORTHERN COUNTIES UNION RAILWAY COMPANY —Notice is hereby given, that the SHARE CERTIFICATES will be in course of ELIVERY on and after the 31st day of October ferift, at the offices of the company, I, oct's Corner, Westminster.—Proprietors who have not received the return of £1 2s. 6d. I the original Leeds and Carlisle shares, are requiseded to send in the same without desy. This scrip will require to be left for seven clear days with the secretary, for examination.

By order, CHALES LODGER WEIGHT, Secretary Company's Office, It, Poet's Corner, Westminster.

EWCASTLE-UPON-TYNE AND CARLISLE RAILWAY.

At a General Meeting of the directors, hold this day, it was resolved.

That an intermediate dividend be declared, for the half-year, ending the 30th day of une last, of \$2 16s. her whole shares, and in proportion for the quarter shares—and ividend to be paid, free from the income tax, on and after the 24th day of October next.

Attendance will be given, for the above purpose, at the office of the company, Forth, tewerstle-upon-Tyne, on the 24th, 36th, and 27th, and at the Bush Inn. Carlisle of the bth and 31st days of October. Dividends not applied for at the times above-mentioned, all be paid afterwards, in the ordinary course of business, at the Nowcastle office.

\*\* Scrip for shares must be forwarded to this office, two clear days before payment, in the have the dividend sudersed upon the scrip, which will be promptly returned, the the mount.

The transfer isoks will be closed on and after the 10th, and will be ze-opened for the transfer isoks will be closed on and after the 10th, and will be ze-opened for the 4th of October.

By order,
JOHN ADAMSON, Clerk to the Company,
Nowcastle-upon-Tyne, Sept. 25, 1846.

CAMERON'S COALBROOK STEAM COAL AND
SWANSEA AND LOUGHOR RAILWAY COMPANY
At a Special Meeting of the proprietors, or shareholders, in Cameron's Coalbrook Steam
Coal and Swansea and Loughor Italiway Company, held pursuant to advertisement, at the
Sifices of the company, No. 2, Moorgate-street, London, on Wednesday, the 14th day of
Cotober, 1846, JACOB MONTEFIORE, Esq., in the chair.
The advertisement convening the meeting having been read, the report of the directors
was read and a statement submitted by the solicitor of the company; wherenoon it was
Beschest unanimously.

was read and a statement submitted by the solicitor of the company; whereupon if was Resolved unanimously.—

That the report submitted by the directors, and the recommendations therein contained be received and adopted, and that the same be entered upon the minutes of the company Resolved unanimously.—

That the directors be instructed to have the book, called the "Register of Shareholders, authenticated, by the common seal of the company being affixed thereto, in terms of the Section of the Act 8 Vic., cap. 16.

Resolved unanimously.—

That N. P. Cameron, Esq.

W. B. J. P. Cameron, Esq.

Sir A. P. Green

Jacob Mentefiore, Esq.

E. G. Winthrope, Esq.

be elected directors of Cameron's Cealbrook Steam Coal and Swansea and Loughor Railway Company:

ray Company:
Resolved unanimously,—
That Wm. Wellington Cooper, Esq., and Thomas Strelley, Esq., be elected auditors on
the company.

J. MONTEFIORE, Chairman.

That with white conjunction of the chairman for his able conduct in the chairman for his able conduct in the chair this day, and the lucid statements of the affairs of the company submitted to the meeting.

3. MONTLEFORE, Chairman for his able conduct in the chair this day, and the lucid statements of the affairs of the company submitted to the meeting.

3. Moorgate-street, Oct. 14, 1846.

NTEW SHARE& MONEY MARKET, ROYAL EXCHANGE ADVANTAGES.

ADVANTAGES.

To facilitate, more beneficially to the public, the bond file sale and treasfer of shares in lic companies and Government securities, by effecting a saving to both buyer and seller. To emble the public, under certain regulations, to effect sales and purchases themes And

3. To establish a register of all transactions.

3. To establish a register of all transactions.

EXPLANATION.

Serip and share certificates to be offered for sale must be deposited at the Royal Exchange Register-office, and a market price fixed—a list of auch shares, with the price artached will then appear in the Times journal, &c.; a similar list will be publicly exhibited at the Royal Exchange Register-office, and a market price fixed—a list of auch shares, with the price artached will then appear in the Times journal, &c.; a similar list will be publicly exhibited at the Royal Exchange daily, and at the Register-office facing Cornhill. Parties in wand of shares not comprised in those efforced for sale must state the particulars of the shares will be included in a list of shares wanted, which will appear in the file public manner, giving information to the advantage of those who may wish to sell.

The buyer and seller will, by this means effect, their mutual objects, and save "the turn of the market," which is unauly from 2s, 6d, to 20s, per share in serip, and from £1 to £5 per share in the established securities.

By thus throwing open the Money Market, the public will be enabled to purchase from the actual owner, and will no longer be compelled to submit to the loss of buying at the highest price and selling at the lowest—the consequence of four parties being employed between the buyer and seller. For example: —A wants to sell, and B wants to buy, 20 shares in the Manchester and Leeds Railway, which are at 23 to 28 premium, evide the fixes, September 23d); A applies to his broker (1), who goes to a jobber (2), and the sale is effected at 39 premium, the lowest price quoted. B, who wants to buy, applies also to be tracker (3), who goes to a jobber (4), and the purchase is made at 28 premium, evidenced, their wants, and thus made them known to each other, each party would save £5, 100 are wholly lost to the buyer and seller; whereas, if they could have pablicly registered, their wants, and thus made them known to each other, each party would save £5, 100

sale.

The securities offered in the New Share and Money Market will comprise: —Shares in all railways, Joint-stock banks, fire and life associations, mining, gas, and water companies, and an infinite variety of others, and Government securities. British and foreign.

With a view to profect the public against fraud, all scrip shares deposited at the Register-files will be referred to the offices of the companies whence they were issued.

Advices of sales or purchases will be forwarded, and proceeds disposed of, according to naturaltons.

ictions.

ties wishing their shares, &c., to appear in the first published lists, must deposit them
Transfer Register-office as under, on or before the 21st instant, after which date, &c., must be sent in before 4 o'clock each day, in order to appear in the journal lowing morning.

STEVENS, HANSARD, & Co.,

Transfer Register-office, Royal Exchange, London

N.B.—The charges are the same as the brokers', but no charge will be made for the gistration of "shares wanted," or "shares for sale," unless the sale be effected.

DATENT KAMPTULICON COMPANY, 18, CORNHILL. managers and contractors with an elastic material (perfectly non-absorbent) to place between the rails and sleepers, and between the raines and bodies of carriages, to prevent jarring, and, consequently, wear and tear. The clastic planking is strongly recommended to be used for the backs and sides of carriages, to prevent splinters when accidents occur.

By order of the board, P. G. GREVILLE, Secretary.

By order of the board, P. G. GREVILLE, Secretary.

EMERSON'S PATENT CEMENT PAINT,
PATENT CEMENT AND PAINT MANUFACTORY, AND STEAM-MILLS,
20, CREIGHTON STREET,
LOWER RND OF TO WASEND-STREET,
LOWER RND OF TO WASEND-STREET,
UNILLY,
The PATENTEES have just completed their arrangements for the introduction of this
VALUABLE and ECONOMIC PAINT. It is perfectly waterproof, and being in a liquid
or pasty state, may be applied at once from the case, by any simple workman, with a
common point-brush—blinning it, as may be requisite, with water.
The surface to which it is to be applied needs no preparation, but to be clean and free
from dust. It matters not whether the walls be wet or dry, its adhesiveness being such
that it will eling to any arrance—brick, stone, slate, tile, or forman coment, and may be
MADL of ANY TINT or COLOUR, to sait the taste of the consumor—its present colour
being that of a light creamy, or stone, colour.

To Roman coment it may be applied the day after it is put on the walls, and one small
sak will cover a mediente-sized house.
It is particularly calculated for country houses, will also not absorb moisture; and, consequently, will preserve the walls as effectively as any comont.

FOR ROOFS.—All loose or vegetated mortar should be removed, then apply the paint,
with a brush, stopping up all holes or crevices, which will cument the entite roof in one
solid mass, so as to render it perfectly impervious to water for many years to come.

Sold at the manufactory, in iron-bound casks, containing 1 cwt., at 6a. 5d.; 2 owis,
the below of the country day, to London, Liverpool, Bristot, or Gaspos,
as a bridge cases.

ins can be sent by assumers every day, to London, Liverpool, Bristol, or Glasgos, at a trifling expense.

USTER DALE IRON COMPANY. TRYDERS FOR LOANS,—The Works of this company are now in the OPZ ATION at RISTER LE, near Hachenbury, in GEIMANY, said at BWINTON near frotherman, TORSHIRE: and the directors, being empowered by the Deed of Stitemans to a site addition to the south of the Work of the County of the Coun addragaing. Be suit and a superior of the shareholders, than was ever presented a chile. COST OF PRODUCTION AND CARRIAGE TO SHIPPING PORT. A string of the string of Winning. The shareholders of the string of Winning. The shareholders of the string of the shareholders of the string of the shareholders. The shareholders of the shareholders of the shareholders of the shareholders. The shareholders of the s letting or

Total

Sale, Sa. 6d. — Coat, Sa. 6d. — Front, 2s. 6d. per ton.

Application for shares, to be made to Messrs. Roberts, Caster, and Co., mineral surepros. 21, Portman-street, Portman-squares, where the engineer's calculations may be sen in detail (alse a plan of the property, and conditions obtained, 2s. Flect-st. London.

Prospectures, S. .. may be had at the office of the Manage Journal, 2s. Flect-st. London.

SILVER-LEAD MINES, ABERG WESSIN, BRECKNOCK-SHIEE, 1000-shares, of £10 auch.

Counting-house on the Mines - Manager and Purver, Massrs. Couch and Pell.

Makers, Roberts, Cartes, and Co., 21, Portrang-sreet, Portman-square.

These mines comprise the whole of the Santy-Brainsand Gregolithenda Estate, and also haltes mines comprises the whole of the Santy-Brainsand Gregolithenda Estate, and also haltes miles of the Transmant Estate, the whole comprising a run of nearly two miles on the country of the William of the Transmant Estate, the whole comprising a run of nearly two miles on the country of the William of the Transmant Estate, the whole comprising a run of nearly two miles on the country of the William of the Transmant Estate, the whole comprising a run of nearly two miles on the country of the William of the Transmant Estate, the whole comprising a run of nearly two miles on the country of the William of

halfes-mile of the Trawsmant Estate; the whole comprising a run of nearly two miles on the sources of five large looks for value, which have been wrought so productively in Lord Cawder's mines.

The value on this property are has beautiful killes, from, yet sufficiently soft to be good standing and working ground. They are composed of gossans, flockans, prian, pulverized mandics, &c., &c. of the most beautiful description, intersected throughout with prilis, attrings of icad, and fraide cross. The first velocity of the prilis, attrings of icad, and fraide cross. The first velocity of the prilis, at Jone, from surface; the next is upwards of 20 ft. wide, and as the afterevel? first, from surface; would pay ft. rawing work, two tons of ore inlying been swed in cutting through the vein. The third vein passed through in the adit level is only about 4 fins, south of the second, and is 25 ft. wide, and stidded through with gossans, prian, mundics, and apols of lead.

The leases of the Abergwessin Mines are duly executed for 21 years, at a royalty of one-twelfth, for the first 10 years, and one-tenth for the remainder of the term. In the Nanty-Moin part, these veins have been wrought for very many years, and have yielded more than 1,000,000, profit. They are now working by Messrs. Williams and Company, at Scorrier House, Corrawilt, and, at the high royalty of one-dight, me returning great profits. The intercultation of the veins presents the same characteristics in each mire. In Lord Cawdor's more, west, the veins are proved to have formed a function at the base of the mountain; and a precisely similar junction of the veins to roved to have formed a function at the base of the mountain; and a precisely similar junction of the veins to roved to each storm of the contravity at a the base of the mountain the Abergwessin Mines, where the veins are all laid open at surface; three of these veins have been cut through by an addition at this dos of the mountain which are the same characteristics in each mire. It is induced to

28, FreeSerrer, London.

1. All the transactions of the company to be conducted on the Cost-book Principle.

2. That the capital of the company be £10,000, in 1000 shares of £10 each, of which £3 is to be first paid to cover the proprieters' outlay for workings, machinery, and charges of every description, up to the sket of July, 1846: the remainder £5 by instablients, or calls not exceeding £1 each, at intervals of not less than three months, of which notice will be given in the Assiming Jewnost, the Times, and local newspapers, when the instalments are to be paid into the bank; if not paid within the date of such notice, the shares shall be forfeited for the benefit of the general proprietary.

3. That all moneys belonging to the company be deposited in the National Provincial Bank of England, at Brecon, to the credit of the company, in the names of their restees; and drawn therefrom by choques, and signed by one of them, and counter-signed by the manager and purser, in such same-only as will cover the current monthly costs; that all materials, labour, and bills, may be discharged at the end of every month, and that vouchers be produced to that effect.

materials, labour, and bills, may be discharged at the end of every month, and that vou-chers be produced to that effect.

4. That a general meeting of the shareholders may be held quarterly, on the mines, of which due notice will be given by circular from the purser, when all matters relating to the company's affairs will be detailed.

5. That the mining operations, and the general matters appertaining to the company's interest in the mining operations, and the general matters appertaining to the company's interest in the mining operations, and the general matters may be made and be respon-sible for all debts contracted, so that no shareholder shall be hable for any amount beyond his or her respective shares.

6. That the nurser shall keen a book, wherein he shall enter the marne and abode of

his or her respective shares.

6. That the purser shall keep a book, wherein he shall enter the name and abode of each shareholder, and the number of his or her shares; and in case of sale or transfor, the seller shall send to the purser the number of the shares sold or transferred, with the proper address of the purchaser; and every share not so entered will not be recognised by the company.

selier shall send to the purchaser; and every share not so entered will not be recognised by the company.

7. The reports of the agents of the mines, and the books of the company, shall be open to the inspection of the shareholders at all reasonable times, at the office, on application to the manager and purser.

8. The leases and legal titles of these mines, and all the property, machinery, effects, and assets of the company, shall be, and are henceforth, vested in high trustees—Messrs. Wallon Pell, Jun., of Clipston, and Peter Paul Couch, of Nanty-Brain House—on behalf of, and according to, each of trief respective shares and interest, &c., to distribute and pay, in accordance with the rules and regulations entered in the cost-book of these mines, quarterly or half-yearly, all dividends, profits, and bonuses, to all such parties as now are or hereafter may become proprietors of shares in these mines.

9. All parties interested in these mines, shall receive a certificate of the number of shares held by him or her, which will be transferable; the helder will be entitled to receive all dividends, profits, and bonuses, from time to time, but will not be allowed to vote at any meeting, or have a vote in the management of the affairs of the company, until such proprietors shall have made application to be registered as a shareholder in the cost-book of these mines, three months praviously to such meeting.

10. That the London business, and the correspondence of, and relating to, these mines, shall be transacted and carried on a the offices of Mesars. Roberts, Carter, and Company, mineral surveyors, and general investment agents, 21, Portman-street, Portman-square, with whom also shall be toposited at duplicate book of the certificate holders of-shares in the said mines, and also copies of the cost-sheet report of the mine, and resolutions of the quarterly general meeting of the shareholders have inserted to the whole number of adjaces, addressed to the purser or manager at the offices of the company on the mines.

UNIVERSAL GAS BURNER—THIRTY TO FIFTY PER NAVERSAL GAS BURNER—Interest to the property of the property o

As the cost of laying on gas is much lower than is commonly supposed, it is adapted for private dwellings, as well as for club-houses, hotels, manufactories, and public buildings. One of the small burners is amply sufficient to light a good-sized room, at a sum indineasing-bly lower than spirit, oil, or candle, with the avoidance of waste or trouble.

The merits of the "Burner," its Buildinney and economy surpassing every other known light, are shown by the annexed authentic opinions of the qualities of the UNIVERSAL GAS BURNER.

EXTRACT from the "Proceedings of the Institution of Civil Engineers," Tuesday, May 26, 1846.—Sir John Rennis, president, in the chair.

"A gas burner, of a novel and ingenious construction, was exhibited. The principal novelty was the introduction of a stream of air to the centre of the flame by a hollow button in the middle of the burner. The air passing up through the hollow stem of the button, was heated, and passed out by two sories of fire-holes around the periphery, and implying with force on the fiame of the gas curved it outwards in the shape of a tuiliy, while the oxygen of the air, mingling with the carburetted hydrogen gas, produced a very perfect combustion. The Jame was quite while down to the top of the burner—was very steady, as was amply demonstrated by the excellent light of the institution, where these burnars have been used. In comparing the consumption of these burners with that of the concentric ring burners, and trying the power of the two lights by the photometer, the new burner gave a better light, with a saving of rather more than one-third.

POLYTECHNIC CHEMICAL SCHOOL.—"In testing Clark, MeNeil, and Co's Universal Gas Burner with one of the beat shadowless burners, it gave a more pure and brilliant light, with a saving of rather more than one-third.

GENERICATE.

"In a series of experiments made upon Clark, MeNeil, and Co's Universal Gas Burner, its superiority was satisfactorily established in economy and the quality of the light; tested against argand burne

TESTIMONIAL TO DR. CLANNY.
TO DR. CLANNY.
TY Job effect the above object, feel it necessary briefly
rounds upon which they are called upon to insert their to each pefore the public the pounds apon which they are called upon to insert their names in the subscription list. About the year 1812, the district was visited by several colliery explosions, of the most awful and extensive description; many were the speculative explosions of thown jut as a rim of for these disasters and among the rest, the scientific tales? and his can be come to the explosive mixture, and is the case. In the course of his unveitigations of the nature of the explosive mixture, and his researches as to the preventive measures made use of in the working of coal mines, he discovered that the only means of carrying on mining operations in explosive air was by the steel mill, which and only affected themself subscribed light, but was oftentimes known to be the cause of axplosion. The energies of his mind were then set to work to discover a substitute affording a better light, and also stended with loss danger than the steel mill. In the course of his studies, he conceived the expedient of a softy lamp, granty different, it is true, for the safety lamp in present use, for its principal was that of an insulated light fed by applying a from without.

Amongst other laudable exertions for the obviating of these awful vistations, was the Society of Frevention of Accidents in Coal Mines, "established in Sunderland, in 1813, of which the late Sir Rahph, Milbank, Bart, was possident. This society consisted not only of pillusiativoje and scientific genitemen, but also of reactical viewers, of whom the last after Buddle, the present disease. George Johnson, Matthias Dunn, &c., were members and it was before this society that this lamp of Dr. Champ was first exhibited, in the year 1813—being beyond all question, the first attempt that over his bos made to produce a lamp calculated to burn safely in merchical scients. The way is the American Collines, by Dr. Reid Channy which was soon afterwards published in the Philosophical Townscions; On the last of the Bertrington Mill Hit, belonging to the late Sir H. V to be perfect the public the grounds upon which they are called upon to misert their names in the subscription list. About the year 1812, this district was visited by several colliery explosions, of the most awful and extensive description; many were the specula-

THE MOST NOBLE THE MARQUIS OF LONDONDERRY, G.C.B.

THE MOST NOBLE THE MARQUIS OF LONDONDERRY, G.Q.B.

R. S. PEMBERTON, Esq., High Sheriff of the county of Durham.

COMMITTEE.

Geo. Johnson, Esq., Willington.

Gapt. J. D. Weatherley.

H. G. Potter, F.L.S., F.G.S.

T. Richardson, Ph. D.

Matthias Duan, Esq., Esrsdon.

J. Willington.

G. Wobstur, Esq., Blabopwearmouth

J. Willington.

G. Wobstur, Esq., Blabopwearmouth

J. Willington.

E. Harrison, Esq., & Esq., C.E.

Charych-row, Steke-Novington, Lond.

T. Harrison, Esq., & C.E.

Charych-row, Steke-Novington, Lond.

T. Harrison, Esq., & C.E.

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T. Harrison, Esq., C.E.

Subscriptions will be received by the respective banks in Newskits, Sunderland, and surham, and by my anember of the constitute; subscriptions will also be received at the filter of the Affairing Journal, 26, Fleet-street, London 21. The subscriptions will also be received at the Newcastle, Sopt. 6, 1846. BAGMILL TONTINE PROSPECTUS of a TONTINE

AG MILLI-TONTINE,

—PROSPECTUS of a TONTINE,

the Disposal of a valuable FREEHOLD FARM, in the fertile parish of ST.

STEPHENS, by Saluash, CORNWALL, now in the peacession of the owner.

Amount to be subscribed, or paid, for the purchase of the farm, and the defrayment of the expenses of the formation of the Tonting, £400, 125 per slare.

In 300 shares, of £20 each.—Dispost £5 per slare.

TRUSTEES.

WILLIAM HENRY PRANCE, £40, of Plymouth.

GEORGE B. MUTLLY, £50, of Plymouth,

GEORGE B. MUTLLY, £50, of Plymouth,

MR. H. A. Olney, Saltash; Messrs, Woellcombe, Square, Stephens, & France, Plymouth.

DESCRIPTION OF THE PROPERTY.

The estate, or farm, called Bagmill, comprised in the above 7 ontine, is situate on the banks of the navigable part of the river Notter, in the said parish of Si. Stephens; distant about one mile from the proposed Comwall Railway, which is intended to pass the river Timar, by a bridge at Saltash, already authorised by Act of Parliament. It consists of a dwelling-house, garden, barn, and other suitable farms buildings, and contains above 48 acres of arable, meadow, orchard, and pasture land. It is watered by several never failing streams, which, by Judicious management, and a small outlay, might be so diverted as to brigate, if required, nearly half the estate, and might be applied, if necessary, to the working of powerful machinery. The estate was recently let on lease, at the annual rent of £100; but is now in the lands of the proprietor.

powerful machinery. The estate was recently let on tease, at the annual ront of £100; but is now in the lands of the proprietor.

\*\*PLAN OF THE TONTINE.\*\*

Each subscriber shall have the option of naming either istuated for herself, or any other person whose age next birthday shall not be less than 70 years, but shall not be at liberty to appoint any nominee who has been previously named.\*\*

The amplus rents after payment of the current expenses, but shall not be at liberty to appoint any nominee who has been previously named.\*\*

The amplus rents after payment of the current expenses, but shall not be divided annually on the 25th day of March, timong those subscribers or proprietors whose nominees were living on the 25th day of March, timong those subscribers or proprietors whose nominees were living on the 25th day of December preceding.

Each party, on sithscribing for a share or shares, as to pay a doposit of 45 per share to the banking eempany above names, to the credit of a charm the share, whose age on the next birthday shall be at least 70 years, accompanied by a destificate of haptism of such nominates, or by such statutory declaration, or other evidence of the age of such member; the nominates, or by such statutory declaration, or other evidence of the age of such member; the normal control of the same and the such as the solicitors shall reasonably requires and shall pay the residue of his a her subscription on the 25th day of December next.

That, if any of the nominees shall the before the whole of the shares shall have been taken, either by subscribers, or by the owner of the fairm, as mentioned below, the party nomining such life may subscriber on proprietor, whose age on the next birthday shall not be less than 50 years, as aforesaid.

Upon the death of all the nominees, save one, the Tontine shall be determined, and the whole of the said farm shall become the absolute property of the subscriber or proprietor, owning a share or shares, alther case may be, upon the fill of the last auryting monine

to, the formation of the Tontine, and preparation and execution of the deeds for effecting the same.

The farm is subject to a charge during the life of a person now aged 83, or the reabouts, against which the owner will enter into a covenant of indemnity with the trustees. The trustees shall be always two in number; and, in case of a vacancy, it shall be filled up on the roasination of the majority of the votes of the proprietors, personally present at a meeting convened for such purpose. Each proprietor to have one vote in respect of every share held by him or her.

If, on the 25th day of December next, any shares shall remain assold, the same may be taken by the owner of the farm, on his nominating such lives in respect thereof as aforesaid, if he should think proper so to do; but if he shall decline to take the same, then, unless the whole thereof shall be disposed of before the 25th day of March following, he shall return the deposits to the subscribers without any deduction.

A list of the subscribers, containing their names and residence—also the name, age, and readence of the nomines—will be farmished to each subscriber.

The necessary deeds shall be prepared by the solicitors to the Tontine; and the same shall be approved by counsel to be nominated by them.

Applications for alares, prospectuses, and plans, may be made to Mr. If. A. Olney, solicitor, Salrais; Messrs, Fuller and Saltwell, 12 Caritton Chambers, Regent-screet, Londou; Messrs. Woollcombe, Square, Stephens, and Prance, solicitors, Plymouth; G. B. Murly, Esq., solicitor, Langport, Somerset, and to the Share Brokers of Plymouth.

OFFICE FOR PATENTS, 7, STAPLE INN, HOLBORN.

J. MURDOCH (successor and late aesistant to Mr. Hebert)
Informs INVENTORS and PATENTEES, that, at his OFFICE, they can obtain
REFERENCE TO A CLASSIFIED LIST OF PATENTS.

(THE ONLY ONE EXTANY), which shows at one view all the Patents over granted for any
particular object, whereby they may save much trouble and expense, and procure information not otherwise obtainable. REPITSH and FOREIGN PATENTS OBTAINED,
and USEFUL and ORNAMENTAL DESIGNS REGISTERED.

SPECIFICATIONS carefully prepared, and REPORTS of ENHOLLED SPECIFICATHOMS furnished on moderate terms.

FINISHED and WORKING DRAWINGS exceeded with measuragy and dispately.

London:—Printed and Published, weekly, by Harry Erection, at the Office, Sc. 26, FLEET,—STREET,
in the city of London, where all Communications and Advertisements are requested to be forwarded—addressed to "the Editor"—post-paid.

Option 17, 1866.